

FLUOR FERNALD CLOSURE PLAN BASIS OF ESTIMATE

INTRODUCTION

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REVISION 1**

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INTRODUCTION FOR CLOSURE PLAN BASIS OF ESTIMATE

1.0 OVERVIEW

The new Fernald Closure Contract calls for a revised baseline to be submitted which will optimize all available resources to safely and efficiently achieve accelerated site closure. The new contract establishes a goal of accelerated completion and uses financial incentives to promote enhanced cost and schedule performance by Fluor Fernald, Inc.. The Fluor Fernald Closure Plan Basis of Estimate establishes a work sequence and implementation approach designed to optimize cost and schedule performance without compromising quality and safety and is based on the \$290 million unescalated funding profile provided by DOE. In addition, the Fluor Fernald Closure Plan Basis of Estimate will also be used to establish a contractual Reference Point Target Cost. This Reference Point and the associated backup (Fluor Fernald Closure Plan Basis of Estimate, etc.) will be used as a basis from which potential changes to the Baseline Target Cost and Schedule will be evaluated. The scope of this baseline are those activities required to achieve "Legacy Facility Completion" as defined in Section C-4.2.1 of the Fernald Closure Contract and "Site Completion" as defined in Section C-4.2.2 of the contract. Post site completion activities, including required contract closure activities, are outside the scope of this baseline and will not be measured within total project cost as established pursuant to Section B.6 of the Fernald Closure Contract. Activities funded by DOE's Office of Science and Technology (i.e., EM-50) are also not included within this baseline or the calculation of total project cost as established pursuant to Section B.6 of the Fernald Closure Contract.

2.0 APPROACH

The starting point for the Fluor Fernald Closure Plan Basis of Estimate was the baseline that existed at the time of the Fluor contract award. The following major changes were incorporated into the Fluor Fernald Closure Plan Basis of Estimate:

- 1) The plan is based on a new funding profile provided by DOE of \$290M unescalated,
- 2) The plan includes chemical stabilization technology for Silos 1 and 2 of Operable Unit 4 as specified in the amended ROD, and the organization and manpower management philosophies detailed in the Fluor Fernald proposal dated July 14, 2000 for the FEMP. (Note: The management philosophy is further detailed in the Functional Responsibility Matrix attached to this volume.),
- 3) The plan includes the addition of known costs as of December 1, 2000 that were not in the baseline at the time of award (e.g., rate changes, burdens and benefits, subcontractor claims, additional scope),
- 4) The plan includes a yearly funds reserve for risk,

- 5) The plan includes certain scope the changes that have occurred since the contract award as of December 1, 2000. These changes are identified in Appendix 3.

3.0 STRUCTURE

The Fluor Fernald Closure Plan Basis of Estimate is subdivided by PBS. The Fluor Fernald Closure Plan Basis of Estimate for each PBS is found in one or more volumes for the PBS. Each PBS is subdivided into sections by the Control Accounts that are applicable to the scope of work for that PBS. The sections uniquely describe the Charge Numbers, Tasks, and Subtasks that are associated with the Control Account, as applicable. Each PBS for the support organizations in PBS-01 and PBS-12 are subdivided in sections by Charge Numbers. The following is a list of the PBS breakout for the Fluor Fernald Closure Plan Basis of Estimate:

- Introduction
- PBS-01 Facility and Project Support
- PBS-02 Demolition and Decontamination
- PBS-03 On-Site Disposal Facility Project
- PBS-04 Aquifer Restoration Project
- PBS-05 Waste Pits Project
- PBS-06 Soils Excavation
- PBS-07 Silos Program
- PBS-08 Nuclear Materials Disposition
- PBS-10 Waste Treatment
- PBS-11 Waste Management
- PBS-12 Program Support and Oversight
- Non-Defense

4.0 CONTENT DESCRIPTION

4.1 PROJECTS

Each section of a project PBS Closure Plan Basis of Estimate is based on a single Control Account and has the following content:

- 1.0 Project Plan Narrative: This is a detailed narrative for each Control Account that describes the scope of work, bounds the work with the assumptions and describes the approach to execute the work. The Project plan is structured as follows.
- 1.1 Overview: Brief description of the work the Control Account plan covers

- 1.2 Assumptions: A definitive list of all assumptions that are used to bound the scope of work. This includes interfaces with organizations other than Fluor Fernald, specific DOE/regulator requirements as applicable, technical assumptions, key exclusions, and the services and support to be provided by the government. This section is subdivided into three categories:
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
- 1.3 Drivers: A list of activities or events that must occur for the project to proceed and are outside the scope of the particular Control Account being described.
- 1.4 Project Physical Description: The project description provides a technical description of the project. The description defines what is to be accomplished, what is the purpose/objective, what is contained within the project, and what are the boundaries for the project.
- 1.5 Project Plan/Technical Scope and Quantification: This section is subdivided by Charge Number, Task, and Subtask, as is applicable as necessary. For the lowest subdivision there is: 1) a Plan/Scope and 2) a Quantification. The Plan/Scope subsection is used to identify the work related to the task, define the technical requirements that must be accomplished, describe how the work will be performed, identify who will perform the work (e.g., subcontractor, Fluor Fernald, Jacobs), and what is the end state for the project. The structure for this section should parallel the WBS structure for the project with the Control Account, the Charge number, and the associated subtasks serving as the outline for the narrative. The Quantification subsection is used to provide the quantification and the technical basis for quantification for the tasks listed in the Plan/Scope. The detail here is to the extent that if quantities or characteristics of the work change (e.g., a changed site condition), the change in scope is obvious and easily evaluated by DOE. The quantification includes the detailing of quantities, the assumed site conditions, the DOE requirements, regulatory requirements, etc.
- 2.0 Project Schedule: The schedule reflects the activities required to perform the task described in the project plan. The schedule is a Level IV type schedule. This schedule parallels the tasks described in the Project Plan/Scope to the extent applicable.

- 3.0 Manpower Plan: The manpower plan identifies the Fluor Fernald resources (including teaming partners) and the onsite subcontractor resources needed to accomplish the scope of work for the project. The resources are identified using the new manpower planning resource codes. The manpower planning sheets found in this section were developed by using the new MPS program. The manpower planning is done at the Charge Number level and represents the level at which the project is to be managed.
- 4.0 Estimate: A detailed estimate has been made for the scope of work and the support requirements directly associated with the Control Account. In addition the estimate parallels the Charge Number(s), and the associated Tasks as outlined in the narrative section.
- 5.0 Risk Mitigation: This section identifies the key risks, the impact of the risk, the probability level, the probable cost, the criticality of the risk and the risk handling strategy for each Control Account in the project. The projected risk budget is calculated through the use of Monte Carlo techniques. Risk is budgeted for each control account on a prorated basis depending on the budget available. The risk budget is held and managed at the site level in a Management Reserve type account. The risk budget for each Control Account is shown in the Attachment Section of this Volume. Mitigation approaches and plans are described and managed outside of this document. For details on the Risk Management Program see "Guidelines for the Risk Management Program."

4.2 SUPPORT ORGANIZATIONS

The PBS Closure Plan Basis of Estimate for Support Organizations is set up at the Charge Number for PBS-12 and PBS-01. The format and content for Closure Plan Basis of Estimate for Support Organizations is as follows:

- 1.0 Support Organization Plan Narrative: This is a detailed narrative that describes what is the scope of work, bounds the work with the assumptions, and describes the approach to execute the work. The Support Organization Plan Narrative is structured as follows:
 - 1.1 Overview: Brief description of the scope of work that is performed by the Support Organization.
 - 1.2 Assumptions/Exclusions: A definitive list of all assumptions that are used to bound the scope of work. This list defines the technical requirements that govern the work, the DOE/regulatory requirements that govern the work by DOE Order or regulation, interfaces with organizations other than Fluor Fernald including the interface and response time if applicable. This section is subdivided into three categories:

- 1.2.1 Assumptions
- 1.2.2 Exclusions
- 1.2.3 Government-Furnished Equipment/Services

- 1.3 Drivers: A list of physical activities or events that determine the level of manpower that is required by the support organization.
- 1.4 Scope of Work: This section is at the Charge Number level, and subdivided into Task(s) and Subtask(s) as is applicable. For the lowest subdivision there is: 1) a Plan/Scope and 2) a Quantification. The Plan/Scope subsection is used to identify the work related to the task, define the technical requirements that must be accomplished, describe how the work will be performed, and identify who will perform the work (e.g., subcontractor, Fluor Fernald). The Quantification subsection is used to provide the quantification and the technical basis for quantification for the tasks listed in the Plan/Scope. The detail here is to the extent that if quantities or characteristics of the work change (e.g., a changed condition), the change in scope is obvious and can be easily evaluated by DOE. The quantification includes the detailing of the manpower, subcontracts and material as applicable and other direct costs for the various tasks described in the scope of work.
- 2.0 Manpower Plan: The manpower plan identifies the Fluor Fernald resources (including teaming partners) and the onsite subcontractor resources needed to accomplish the scope of work assigned to the support organization. The resources are identified using the new manpower planning resource codes. The manpower planning sheets found in this section were developed by using the new MPS program. The manpower planning is done at the level at which the support department is to be managed.
- 3.0 Estimate: A detailed estimate has been made for the scope of work associated with the Support Organization at the Charge Number level.
- 4.0 Risk Mitigation: This section identifies the key risks, the impact of the risk, the probability level, the probable cost, the criticality of the risk and the risk handling strategy for each Support Organization Charge Number. The projected risk budget is calculated through the use of Monte Carlo techniques. Risk is budgeted for each charge number on a prorated basis depending on the budget available. The risk budget is held and managed at the site level in a Management Reserve account. The risk budget for each Support Organization is shown in the Attachment Section of this Volume. Mitigation approaches and plans are described and managed outside of this document. For details on the Risk Management Program see "Guidelines for the Risk Management Program."

5.0 GLOBAL ASSUMPTIONS

The PBS-by-PBS Basis of Estimate narratives detail the important assumptions, including required Government Furnished Equipment/Services, and implementation strategies that will allow achievement of the contractual objectives of least cost, earliest site completion. However, there are a number of items that generally apply "across-the-board" and are presented in this section.

5.1 STAKEHOLDER INTERFACE

Active interface and alignment with Fernald's key stakeholders will continue to be a principal focus of Fluor Fernald. Fluor Fernald will work diligently in support of DOE to keep our stakeholders informed of all major aspects of the remedial/technical path forward at Fernald. The Fernald Closure Baseline is based on implementation approaches that are technically valid, safe, and compliant from a contractual, legal and regulatory perspective as allowed by Funding (see Section 5.2). Fluor Fernald recognizes that collaborative efforts with our stakeholders are vital to the success of the project and will support them accordingly. This baseline assumes that interface with the stakeholder community will produce consensus with the described implementation strategies including the addition of tasks or increasing the level of activity within a given task, the manpower profiles and the schedules contained herein. Any revisions to the implementation strategies and/or schedules within this baseline as detailed in the Basis of Estimate resulting from these collaborative efforts with the stakeholders will be treated as changes in accordance with the contract.

5.2 REGULATOR INTERFACE

Active interface and alignment with Fernald's regulators (i.e., USEPA and Ohio EPA) will continue to be a principle focus of Fluor Fernald. Fluor Fernald will work diligently in support of DOE to promote this alignment. The Fernald Closure Baseline is based on implementation approaches that are technically valid, safe, compliant from a contractual, legal, and regulatory perspective. An exception to this is the fact that the assumed \$290M Funding profile does not allow compliance with all regulatory milestones under any realistic work-sequencing scenario. This issue has been the subject of previous correspondence from Fluor Fernald to DOE. Fluor Fernald recognizes that collaborative efforts with our regulators are vital to the success of the project and will support them accordingly. This baseline assumes that interface with the regulators will produce consensus with the implementation strategies and the schedules contained herein. Any revision to the implementation strategies, including the addition of tasks, increasing the level of activity within a given task, or changing tasks and/or project sequences and/or schedules within this baseline as detailed in the Basis of Estimate resulting from these collaborative efforts will be treated as changes in accordance with the contract. As part of this, the baseline assumes that the regulators will review and approve primary deliverables, as defined in the Amended Consent Agreement (ACA), consistent with the process and timelines prescribed in the ACA. Any modifications of strategies and

schedules in the baseline due to the involvement of other regulatory agencies (e.g., DNFSB) will be treated as changes in accordance with the contract.

5.3 GOVERNMENT-FURNISHED EQUIPMENT/SERVICES

This baseline assumes that the DOE will deliver certain services and items according to a specific schedule to allow optimization of overall cost and schedule. These are detailed in Section 1.2.3 of the PBS narratives. In addition, a number of these services and items generally apply to all the PBS's as follows:

- Annual funding will be released to Fluor Fernald to allow implementation of all planned activities without interruption or delay. This includes funding through both EW-05 and the Safeguards and Security Budget and Reporting. Fluor Fernald will not be unreasonably constrained from re-allocating funds across PBS boundaries or across the EW-05 and Safeguard and Security Budget and Reporting boundaries as required to optimize available resources.
- DOE consent for procurement, as requested, will be consistent with the process and timelines in the Procurement Authorization Authority (March 1, 2001)
- DOE will approve requests to initiate work force restructuring actions within 30 days of the request
- Utility service will be provided such that planned activities are not interrupted or delayed
- DOE will provide timely review of reports requiring external distribution including regulatory deliverables. It is assumed that DOE review will be concurrent with Fluor Fernald review of draft deliverables and that there will be one round of document revision to address DOE comments

5.4 GENERAL

The baseline includes a manpower plan to match required activities. The level of service provided for "level of effort" activities will be that which can be provided consistent with the planned manpower.

Part 1: AMGT - Management

Section 1: AMGT1 – Management Staff

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.4 Scope of Work
 - 1.4.1 Facility and Project Support Management
 - 1.4.2 Quantification/~~Premium~~ Overtime
 - 1.4.3 ODCs
 - 1.4.4 Subcontracts/Materials
- 2.0 Schedule
- 3.0 Manpower Plans
 - 3.1 Management Staff
- 4.0 Estimate
- 5.0 Risk Plan

Part 2: ASVC – Infrastructure Services
Section 1: ASVC1 – Infrastructure Services

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.4 Scope of Work
 - 1.4.1 Property Management
 - 1.4.1)1 Plan/Scope
 - 1.4.1)2 Quantification/~~Premium~~ Overtime
 - 1.4.1)3 ODCs
 - 1.4.1)4 Subcontracts/Material
 - 1.4.2 Property Control
 - 1.4.2)1 Plan/Scope
 - 1.4.2)2 Quantification/~~Premium~~ Overtime
 - 1.4.2)3 ODCs
 - 1.4.2)4 Subcontracts/Materials
 - 1.4.3 RIMIA/Stores
 - 1.4.3)1 Plan/Scope
 - 1.4.3)2 Quantification/~~Premium~~ Overtime
 - 1.4.3)3 ODCs
 - 1.4.3)4 Subcontracts/Materials
 - 1.4.4 Property Disposition
 - 1.4.4)1 Plan/Scope
 - 1.4.4)2 Quantification/~~Premium~~ Overtime
 - 1.4.4)3 ODCs
 - 1.4.4)4 Subcontracts/Materials
- 2.0 Manpower Plans
 - 2.1 Infrastructure Services
 - 2.2 Transportation
 - 2.3 Maintenance
 - 2.4 Porters/Laundry
 - 2.5 Facilities Support
 - 2.6 Labor Hour Support and Planning
- 3.0 Estimate
- 4.0 Risk Plan

Part 2: ASVC - Infrastructure Services
Section 2: ASVC2 - Transportation

1.0 Narrative

1.1 Overview

1.2 Assumptions/Exclusions

1.2.1 Assumptions

1.2.2 Exclusions

1.2.3 Government-Furnished Equipment/Services

1.3 Drivers

1.4 Scope of Work

1.4.1 Management Support

1.4.1)1 Plan/Scope

1.4.1)2 Quantification/Overtime

1.4.1)3 ODCs

1.4.1)4 Subcontracts/Materials

1.4.2 Vehicle Garage

1.4.2)1 Plan/Scope

1.4.2)2 Quantification/Overtime

1.4.2)3 ODCs

1.4.2)4 Subcontracts/Materials

1.4.3 Transportation Deliveries

1.4.3)1 Plan/Scope

1.4.3)2 Quantification/Overtime

1.4.3)3 ODCs

1.4.3)4 Subcontracts/Materials

1.4.4 Heavy Equipment Support

1.4.4)1 Plan/Scope

1.4.4)2 Quantification/Overtime

1.4.4)3 ODCs

1.4.4)4 Subcontracts/Materials

Part 2: ASVC – Infrastructure Services
Section 3: ASVC3 - Maintenance

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.3.1 Administrative
 - 1.3.2 Physical
 - 1.4 Scope of Work
 - 1.4.1 Management Support
 - 1.4.1)1 Plan/Scope
 - 1.4.1)2 Quantification/Overtime
 - 1.4.1)3 ODCs
 - 1.4.1)4 Subcontracts/Materials
 - 1.4.2 Administrative Support
 - 1.4.2)1 Plan/Scope
 - 1.4.2)2 Quantification/Overtime
 - 1.4.2)3 ODCs
 - 1.4.2)4 Subcontracts/Materials
 - 1.4.3 General Laborers
 - 1.4.3)1 Plan/Scope
 - 1.4.3)2 Quantification/Overtime
 - 1.4.3)3 ODCs
 - 1.4.3)4 Subcontracts/Materials
 - 1.4.4 General Maintenance
 - 1.4.4)1 Plan Scope
 - 1.4.4)2 Quantification/Overtime
 - 1.4.4)3 ODCs
 - 1.4.4)4 Subcontracts/Materials

Part 2: ASVC- Infrastructure Services
Section 4: ASVC4 – Porters/Laundry

1.0 Narrative

1.1 Overview

1.2 Assumptions/Exclusions

1.2.1 Assumptions

1.2.2 Exclusions

1.2.3 Government-Furnished Equipment/Services

1.3 Drivers

1.4 Scope of Work

1.4.1 Management Support

1.4.1)1 Plan/Scope

1.4.1)2 Quantification/Overtime

1.4.1)3 ODCs

1.4.1)4 Subcontracts/Materials

1.4.2 Porters

1.4.2)1 Plan/Scope

1.4.2)2 Quantification/Overtime

1.4.2)3 ODCs

1.4.2)4 Subcontracts/Materials

1.4.3 Laundry

1.4.3)1 Plan/Scope

1.4.3)2 Quantification/Overtime

1.4.3)3 ODCs

1.4.3)4 Subcontracts/Materials

Part 2: ASVC - Infrastructure Services
Section 5: ASVC5 – Facilities Support

1.0 Narrative

1.1 Overview

- 1.1.1 Management Support
- 1.1.2 Facilities Engineering
- 1.1.3 Facilities
- 1.1.4 Utilities
- 1.1.5 Space Management
- 1.1.6 Radiological Surveillance

1.2 Assumptions/Exclusions

- 1.2.1 Assumptions
- 1.2.2 Exclusions
- 1.2.3 Government-Furnished Equipment/Services

1.3 Drivers

- 1.3.1 Physical
- 1.3.2 Administrative

1.4 Scope of Work

1.4.1 Management Support

- 1.4.1)1 Plan/Scope
- 1.4.1)2 Quantification/Overtime
- 1.4.1)3 ODCs
- 1.4.1)4 Subcontracts/Materials

1.4.2 Facilities Engineering

- 1.4.2)1 Plan/Scope
- 1.4.2)2 Quantification/Overtime
- 1.4.2)3 ODCs
- 1.4.2)4 Subcontracts/Materials

1.4.3 Facilities

- 1.4.3)1 Plan/Scope
- 1.4.3)2 Quantification/Overtime
- 1.4.3)3 ODCs
- 1.4.3)4 Subcontracts/Materials

1.4.4 Utilities

- 1.4.4)1 Plan/Scope
- 1.4.4)2 Quantification/Overtime
- 1.4.4)3 ODCs
- 1.4.4)4 Subcontracts/Materials

1.4.5 Space Management

- 1.4.5)1 Plan/Scope
- 1.4.5)2 Quantification/Overtime
- 1.4.5)3 ODCs
- 1.4.5)4 Subcontracts/Materials

Part 2: ASVC - Infrastructure Services
Section 5: ASVC5 – Facilities Support (Continued)

- 1.4.6 Radiological Surveillance
 - 1.4.6)1 Plan/Scope
 - 1.4.6)2 Quantification/Overtime
 - 1.4.6)3 ODCs
 - 1.4.6)4 Subcontracts/Materials

Part 2: ASVC – Infrastructure Services
Section 6: ASVC6 - Labor Hour Support and Planning

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.4 Scope of Work
 - 1.4.1 Management Support
 - 1.4.1)1 Plan/Scope
 - 1.4.1)2 Quantification/Overtime
 - 1.4.1)3 ODCs
 - 1.4.1)4 Subcontracts/Materials
 - 1.4.2 Porters
 - 1.4.2)1 Plan/Scope
 - 1.4.2)2 Quantification/Overtime
 - 1.4.2)3 ODCs
 - 1.4.2)4 Subcontracts/Materials
 - 1.4.3 Laundry
 - 1.4.3)1 Plan/Scope
 - 1.4.3)2 Quantification/Overtime
 - 1.4.3)3 ODCs
 - 1.4.3)4 Subcontracts/Materials

Part 3: AFLD – Field Operations

Section 1: AFLD1 – Quality Control Operations

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.4 Scope of Work
 - 1.4.1 Quality Control Operations
 - 1.4.1)1 Plan/Scope
 - 1.4.1)2 Quantification/~~Premium~~ Overtime
 - 1.4.1)3 ODCs
 - 1.4.1)4 Subcontracts/Materials
- 2.0 Manpower Plans
 - 2.1 Quality Control Operations
 - 2.2 ES&H and Radiological Operations
 - 2.3 Field Procurement
- 3.0 Estimate
- 4.0 Risk Plan

Part 3: AFLD – Field Operations

Section 2: AFLD3 – ES&H and Radiological Operations

1.0 Narrative

1.1 Overview

1.2 Assumptions/Exclusions

1.2.1 Assumptions

1.2.2 Exclusions

1.2.3 Government-Furnished Equipment/Services

1.3 Drivers

1.3.1 Administrative

1.3.2 Physical

1.4 Scope of Work

1.4.1 Field Operations/ES&H and Rad

1.4.1)1 Plan/Scope

1.4.1)2 Quantification/~~Premium~~ Overtime

1.4.1)3 ODCs

1.4.1)4 Subcontracts/Materials

Part 3: AFLD – Field Operations
Section 3: AFLD4 – Field Procurement

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.3.1 Administrative
 - 1.3.2 Physical
 - 1.4 Scope of Work
 - 1.4.1 Field Procurement
 - 1.4.1)1 Plan/Scope
 - 1.4.1)2 Quantification/~~Premium~~ Overtime
 - 1.4.1)3 ODCs
 - 1.4.1)4 Subcontracts/Materials

Part 4: APRJ – FACILITY PROJECTS

Section 1: APRJ1 – Temporary Facility Leases and Purchases

1.0 Narrative

1.1 Overview

1.2 Assumptions/Exclusions

1.2.1 Assumptions

1.2.2 Exclusions

1.2.3 Government-Furnished Equipment/Services

1.3 Drivers

1.4 Scope of Work

1.4.1 Temporary Facility Leases and Purchases

1.4.1)1 Plan/Scope

1.4.1)2 Quantification/~~Premium~~ Overtime

1.4.1)3 ODCs

1.4.1)4 Subcontracts/Materials

2.0 Estimate

3.0 Risk Plan

Part 4: APRJ – FACILITY PROJECTS
Section 2: APRJ2 – New Trailer Complex

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.4 Scope of Work
 - 1.4.1 New Trailer Complex
 - 1.4.1)1 Plan/Scope
 - 1.4.1)2 Quantification Table

Part 4: APRJ – FACILITY PROJECTS

Section 3: APRJ3 – Health and Safety Building Relocation

1.0 Narrative

1.1 Overview

- 1.1.1 Medical Complex
- 1.1.2 Communications Center
- 1.1.3 T-45/T-46 Renovation
- 1.1.4 Building 44A (T-1) Renovation
- 1.1.5 Services Building Renovation

1.2 Assumptions/Exclusions

1.2.1 Assumptions

- 1.2.1.1 Medical Complex
- 1.2.1.2 Communications Center
- 1.2.1.3 T-45/T-46 Renovation
- 1.2.1.4 Building 44A (T-1) Renovation
- 1.2.1.5 Services Building Renovation

1.2.2 Exclusions

- 1.2.2.1 Medical Complex
- 1.2.2.2 Communications Center
- 1.2.2.3 T-45/T-46 Renovation
- 1.2.2.4 Building 44A (T-1) Renovation
- 1.2.2.5 Services Building Renovation

1.2.3 Government-Furnished Equipment/Services

1.3 Drivers

1.4 Project Physical Description

1.5 Project Plan/Technical Scope and Quantification

1.5.1 Medical Complex

- 1.5.1)1 Plan/Scope
- 1.5.1)2 Quantification Table

1.5.2 Communications Center

- 1.5.2)1 Plan/Scope
- 1.5.2)2 Quantification Table

1.5.3 T-45/T-46 Renovation

- 1.5.3)1 Plan/Scope
- 1.5.3)2 Quantification Table

1.5.4 Building 44A (T-1) Renovation

- 1.5.4)1 Plan/Scope
- 1.5.4)2 Technical Scope/Quantification Table

1.5.5 Services Building Renovation

- 1.5.5)1 Plan/Scope
- 1.5.5)2 Quantification Table

Part 4: APRJ – FACILITY PROJECTS

Section 4: APRJ4 – Miscellaneous Relocation Projects

1.0 Narrative

1.1 Overview

- 1.1.1 Renovation of Southwest Boiler House (93A)
- 1.1.2 Relocation of Trailer 86 and Trailer 87
- 1.1.3 Relocation of Trailer 84
- 1.1.4 Construction of Pre-Engineered Building for Equipment Disposition Function and Renovation of T-33

1.2 Assumptions/Exclusions

1.2.1 Assumptions

- 1.2.1.1 Renovation of Southwest Boiler House (93A)
- 1.2.1.2 Relocation of Trailer 86 and Trailer 87
- 1.2.1.3 Relocation of Trailer 84
- 1.2.1.4 Construction of Pre-Engineered Building for Equipment Disposition Function and Renovation of T-33

1.2.2 Exclusions

- 1.2.2.1 Renovation of Southwest Boiler House (93A)
- 1.2.2.2 Relocation of Trailer 86 and Trailer 87
- 1.2.2.3 Relocation of Trailer 84
- 1.2.2.4 Construction of Pre-Engineered Building for Equipment Disposition Function and Renovation of T-33

1.2.3 Government-Furnished Equipment/Services

1.3 Drivers

- 1.3.1 Renovation of Southwest Boiler House (93A)
- 1.3.2 Relocation of Trailer 86 and Trailer 87
- 1.3.3 Relocation of Trailer 84
- 1.3.4 Construction of Pre-Engineered Building for Equipment Disposition Function and Renovation of T-33

1.4 Project Physical Description

- 1.4.1 Renovation of Southwest Boiler House (93A)
- 1.4.2 Relocation of Trailer 86 and Trailer 87
- 1.4.3 Relocation of Trailer 84
- 1.4.4 Construction of Pre-Engineered Building for Equipment Disposition Function and Renovation of T-33

1.5 Project Plan/Technical Scope and Quantification

- 1.5.1 Renovation of Southwest Boiler House (93A)
 - 1.5.1)1 Plan/Scope
 - 1.5.1)2 Quantification Table
- 1.5.2 Relocation of Trailer 86 and Trailer 87
 - 1.5.2)1 Plan/Scope
 - 1.5.2)2 Quantification Table

Part 4: APRJ – FACILITY PROJECTS

Section 4: APRJ4 – Miscellaneous Relocation Projects (Continued)

- 1.5.3 Relocation of Trailer 84
 - 1.5.3)1 Plan/Scope
 - 1.5.3)2 Quantification Table
- 1.5.4 Construction of Pre-Engineered Building for Equipment Disposition
Function and Renovation of T-33
 - 1.5.4)1 Plan/Scope
 - 1.5.4)2 Quantification Table

Part 4: APRJ – FACILITY PROJECTS

Section 5: APRJ5 – Upgrades

1.0 Narrative

1.1 Overview

~~1.1.1 Roof/HVAC~~

1.1.1 Road Upgrades

1.1.2 Plant 6 Water Management System

1.2 Assumptions/Exclusions

1.2.1 Assumptions

~~1.2.1.1 Roof/HVAC~~

1.2.1.1 Road Upgrades

1.2.1.2 Plant 6 Water Management System

1.2.2 Exclusions

~~1.2.2.1 Roof/HVAC~~

~~1.2.2.1~~ 1.2.2.1 Road Upgrades

1.2.2.2 Plant 6 Water Management System

1.2.3 Government-Furnished Equipment/Services

1.3 Drivers

~~1.3.1 Roof/HVAC~~

~~1.3.1~~ 1.3.1 Road Upgrades

1.3.2 Plant 6 Water Management System

1.4 Project Physical Description

~~1.4.1 Roof/HVAC~~

~~1) Task #1 – Laboratory Building (11) South Corridor Roof Replacement~~

~~1.4.1~~ 1.4.1 Road Upgrades

1) Task #1 – West Parking Lot Area and South Access Road

2) Task #2 – East Parking Lot Area and North Access Road

1.4.2 Plant 6 Water Management System

1.5 Project Plan/Technical Scope and Quantification

~~1.5.1 Roof/HVAC~~

~~1) Task #1 – Laboratory Building (11) South Corridor Roof Replacement~~

~~1.1) Plan/Scope~~

~~1.2) Quantification Table~~

1.5.2 Road Upgrades

1) Task #1 – West Parking Lot Area and South Access Road

1.1) Plan/Scope

2) Task #2 - East Parking Lot Area and North Access Road

2.1) Plan/Scope

2.2) Quantification

2.3) ODCs

2.4) Subcontract

1.5.3 Plant 6 Water Management System

1) Plan/Scope

2) Quantification

Section 1: BFDP – Project Management

1.0 Narrative

- 1.1 Overview
- 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government Furnished Equipment/Service
- 1.3 Drivers
- 1.4 Project Physical Description
 - 1.4.1 BFDP – Project Management
 - 1) Task #1 – D&D Project Management
 - 2) Task #2 – Planning and Procurement
 - 3) Task #3 – Construction Management
 - 4) Task #4 – Project Closeout
 - 5) Task #5 – On-Site Waste Disposal
- 1.5 Project Plan/Technical Scope and Qualification
 - 1.5.1 BDFP – D&D Project Management
 - 1) Task #1 – Facility D&D Project Management
 - 1.1) Plan/Scope – Facility D&D Project Management
 - 1.2) Quantification – Facility D&D Project Management
 - 2) Task #2 – Planning and Procurement
 - 2.1) Plan/Scope – Planning and Procurement
 - 2.2) Quantification – Planning and Procurement
 - 3) Task #3 – Construction Management
 - 3.1) Plan/Scope – Construction Management
 - 3.2) Quantification – Construction Management
 - 4) Task #4 – Project Closeout
 - 4.1) Plan/Scope – Project Closeout
 - 4.2) Quantification – Project Closeout
 - 5) Onsite Waste Disposal
 - 5.1) Plan/Scope – Onsite Waste Disposal
 - 5.2) Quantification

Section 2: BFUD – Facility Isolation and Utility Redistribution

1.0 Narrative

- 1.1 Overview
- 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
- 1.3 Drivers
- 1.4 Project Physical Description
 - 1.4.1 BFUD – Facility Isolation
 - 1) Task #1 – Facility Isolation – Plant 2
 - 2) Task #2 – Facility Isolation - Plant 3
 - 3) Task #3 – Facility Isolation - General Sump
 - 4) Task #4 – Facility Isolation - Plant 8
 - 5) Task #5 – Facility Isolation - Health and Safety Building
 - 6) Task #6 – Facility Isolation - Liquid Storage
 - 7) Task #7 – Facility Isolation - Pilot Plant
 - 8) Task #8 – Facility Isolation - Laboratory
 - 9) Task #9 – Facility Isolation - Administration (Includes Electrical Complex)
 - 10) Task #10 – Facility Isolation - East Warehouse
 - 11) Task #11 – Facility Isolation – Miscellaneous Structures
 - 12) Task #12 – Facility Isolation - Building 64/65
 - 13) Task #13 – Facility Isolation - Plant 1, Phase II
 - 14) Task #14 – Facility Isolation - Plant 5
 - 15) Task #15 – Facility Isolation - Plant 6
 - 16) Task #16 – Facility Isolation – Area 3A
 - 17) Task #17 – Facility Isolation - Area 3B
 - 18) Task #18 – Facility Isolation - Area 4A
 - 19) Task #19 – Facility Isolation - Area 4B
 - 20) Task #20 – Facility Isolation - Area 5
 - 1.4.2 BFUD – Utility Redistribution
 - 1) Task #1 – Utility Redistribution – Plant 2
 - 2) Task #2 – Utility Redistribution - Plant 3
 - 3) Task #3 – Utility Redistribution - General Sump
 - 4) Task #4 – Utility Redistribution - Plant 8
 - 5) Task #5 – Utility Redistribution - Health and Safety Building
 - 6) Task #6 – Utility Redistribution - Liquid Storage
 - 7) Task #7 – Utility Redistribution - Pilot Plant
 - 8) Task #8 – Utility Redistribution - Laboratory
 - 9) Task #9 – Utility Redistribution - Administration (Includes Electrical Complex)
 - 10) Task #10 – Utility Redistribution - East Warehouse
 - 11) Task #11 – Utility Redistribution - Miscellaneous Structures

- 12) Task #12 – Utility Redistribution - Building 64/65
 - 13) Task #13 – Utility Redistribution - Plant 1, Phase II
 - 14) Task #14 – Utility Redistribution - Plant 5
 - 15) Task #15 – Utility Redistribution - Plant 6
 - 16) Task #16 – Utility Redistribution - Area 3A
 - 17) Task #17 – Utility Redistribution - Area 3B
 - 18) Task #18 – Utility Redistribution - Area 4A
 - 19) Task #19 – Utility Redistribution – Area 4B
 - 20) Task #20 – Utility Redistribution - Area 5
- 1.5 Project Plan/Technical Scope and Quantification
- 1.5.1 BFUD1 – Facility Isolation
- 1) Task #1 – Facility Isolation - Plant 2
 - 1.1) Plan/Scope – Facility Isolation - Plant 2
 - 1.2) Quantification – Facility Isolation - Plant 2
 - 2) Task #2 – Facility Isolation - Plant 3
 - 2.1) Plan/Scope – Facility Isolation - Plant 3
 - 2.2) Quantification - Facility Isolation - Plant 3
 - 3) Task #3 – Facility Isolation - General Sump
 - 3.1) Plan/Scope - Facility Isolation - General Sump
 - 3.2) Quantification – Facility Isolation - General Sump
 - 4) Task #4 – Facility Isolation - Plant 8
 - 4.1) Plan/Scope - Facility Isolation - Plant 8
 - 4.2) Quantification – Facility Isolation - Plant 8
 - 5) Task #5 – Facility Isolation - Health and Safety Building
 - 5.1) Plan/Scope - Facility Isolation - Health and Safety Building
 - 5.2) Quantification – Facility Isolation - Health and Safety Building
 - 6) Task #6 – Facility Isolation - Liquid Storage
 - 6.1) Plan/Scope - Facility Isolation - Liquid Storage
 - 6.2) Quantification – Facility Isolation - Liquid Storage
 - 7) Task #7 – Facility Isolation - Pilot Plant
 - 7.1) Plan/Scope - Facility Isolation - Pilot Plant
 - 7.2) 7.2) Quantification – Facility Isolation - Pilot Plant
 - 8) Task #8 – Facility Isolation – Laboratory
 - 8.1) Plan/Scope - Facility Isolation - Laboratory
 - 8.2) Quantification – Facility Isolation - Laboratory
 - 9) Task #9 – Facility Isolation - Administration (Includes Electrical Complex)
 - 9.1) Plan/Scope - Facility Isolation - Administration (Includes Electrical Complex)
 - 9.2) Quantification – Facility Isolation - Administration (Includes Electrical Complex)
 - 10) Task #10 – Facility Isolation - East Warehouse
 - 10.1) Plan/Scope - Facility Isolation - East Warehouse
 - 10.2) Quantification - Facility Isolation - East Warehouse

- 11) Task #11 – Facility Isolation - Miscellaneous Structures
 - 11.1) Plan/Scope - Facility Isolation - Miscellaneous Structures
 - 11.2) Quantification – Facility Isolation - Miscellaneous Structures
- 12) Task #12 – Facility Isolation - Building 64/65
 - 12.1) Plan/Scope - Facility Isolation - Building 64/65
 - 12.2) Quantification – Facility Isolation - Building 64/65
- 13) Task #13 – Facility Isolation - Plant 1, Phase II
 - 13.1) Plan/Scope - Facility Isolation - Plant 1, Phase II
 - 13.2) Quantification – Facility Isolation - Plant 1, Phase II
- 14) Task #14 – Facility Isolation - Plant 5
 - 14.1) Plan/Scope - Facility Isolation - Plant 5
 - 14.2) Quantification - Facility Isolation - Plant 5
- 15) Task #15 – Facility Isolation - Plant 6
 - 15.1) Plan/Scope - Facility Isolation - Plant 6
 - 15.2) Quantification - Facility Isolation - Plant 6
- 16) Task #16 – Facility Isolation – Area 3A
 - 16.1) Plan/Scope - Facility Isolation – Area 3A
 - 16.2) Quantification - Facility Isolation – Area 3A
- 17) Task #15 – Facility Isolation – Area 3B
 - 17.1) Plan/Scope - Facility Isolation – Area 3B
 - 17.2) Quantification - Facility Isolation – Area 3B
- 18) Task #18 – Facility Isolation – Area 4A
 - 18.1) Plan/Scope - Facility Isolation – Area 4A
 - 18.2) Quantification - Facility Isolation – Area 4A
- 19) Task #19 – Facility Isolation - Area 4B
 - 19.1) Plan/Scope - Facility Isolation - Area 4B
 - 19.2) Quantification – Facility Isolation - Area 4B
- 20) Task #20 – Facility Isolation - Area 5
 - 20.1) Plan/Scope - Facility Isolation - Area 5
 - 20.2) Quantification – Facility Isolation - Area 5
- 1.5.2 BFUD2 – Utility Redistribution
 - 1) Task #1 – Utility Redistribution - Plant 2
 - 1.1) Plan/Scope – Utilities Redistribution - Plant 2
 - 1.2) Quantification – Utilities Redistribution - Plant 2
 - 2) Task #2 – Utilities Redistribution - Plant 3
 - 2.1) Plan/Scope – Utilities Redistribution - Plant 3
 - 2.2) Quantification - Utilities Redistribution - Plant 3
 - 3) Task #3 – Utilities Redistribution - General Sump
 - 3.1) Plan/Scope - Utilities Redistribution - General Sump
 - 3.2) Quantification – Utilities Redistribution - General Sump
 - 4) Task #4 – Utilities Redistribution - Plant 8
 - 4.1) Plan/Scope - Utilities Redistribution - Plant 8
 - 4.2) Quantification – Utilities Redistribution - Plant 8
 - 5) Task #5 – Utilities Redistribution - Health and Safety Building

- 5.1) Plan/Scope - Utilities Redistribution - Health and Safety Building
- 5.2) Quantification - Utilities Redistribution - Health and Safety Building
- 6) Task #6 - Utilities Redistribution - Liquid Storage
 - 6.1) Plan/Scope - Utilities Redistribution - Liquid Storage
 - 6.2) Quantification - Utilities Redistribution - Liquid Storage
- 7) Task #7 - Utilities Redistribution - Pilot Plant
 - 7.1) Plan/Scope - Utilities Redistribution - Pilot Plant
 - 7.2) Quantification - Utilities Redistribution - Pilot Plant
- 8) Task #8 - Utilities Redistribution - Laboratory
 - 8.1) Plan/Scope - Utilities Redistribution - Laboratory
 - 8.2) Quantification - Utilities Redistribution - Laboratory
- 9) Task #9 - Utilities Redistribution - Administration (Includes Electrical Complex)
 - 9.1) Plan/Scope - Utilities Redistribution - Administration (Includes Electrical Complex)
 - 9.2) Quantification - Utilities Redistribution - Administration (Includes Electrical Complex)
- 10) Task #10 - Utilities Redistribution - East Warehouse
 - 10.1) Plan/Scope - Utilities Redistribution - East Warehouse
 - 10.2) Quantification - Utilities Redistribution - East Warehouse
- 11) Task #11 - Utilities Redistribution - Miscellaneous Structures
 - 11.1) Plan/Scope - Utilities Redistribution - Miscellaneous Structures
 - 11.2) Quantification - Utilities Redistribution - Miscellaneous Structures
- 12) Task #12 - Utilities Redistribution - Building 64/65
 - 12.1) Plan/Scope - Utilities Redistribution - Building 64/65
 - 12.2) Quantification - Utilities Redistribution - Building 64/65
- 13) Task #13 - Utilities Redistribution - Plant 1, Phase II
 - 13.1) Plan/Scope - Utilities Redistribution - Plant 1, Phase II
 - 13.2) Quantification - Utilities Redistribution - Plant 1, Phase II
- 14) Task #14 - Utilities Redistribution - Plant 5
 - 14.1) Plan/Scope - Utilities Redistribution - Plant 5
 - 14.2) Quantification - Utilities Redistribution - Plant 5
- 15) Task #15 - Utilities Redistribution - Plant 6
 - 15.1) Plan/Scope - Utilities Redistribution - Plant 6
 - 15.2) Quantification - Utilities Redistribution - Plant 6
- 16) Task #16 - Utilities Redistribution - Area 3A
 - 16.1) Plan/Scope - Utilities Redistribution - Area 3A
 - 16.2) Quantification - Utilities Redistribution - Area 3A
- 17) Task #15 - Utilities Redistribution - Area 3B
 - 17.1) Plan/Scope - Utilities Redistribution - Area 3B

- 17.2) Quantification - Utilities Redistribution – Area 3B
- 18) Task #18 – Utilities Redistribution – Area 4A
 - 18.1) Plan/Scope - Utilities Redistribution – Area 4A
 - 18.2) 18.2) Quantification - Utilities Redistribution – Area 4A
- 19) Task #19 – Utilities Redistribution - Area 4B
 - 19.1) Plan/Scope - Utilities Redistribution - Area 4B
 - 19.2) 19.2) Quantification – Utilities Redistribution - Area 4B
- 20) Task #20 – Utilities Redistribution - Area 5
 - 20.1) Plan/Scope - Utilities Redistribution - Area 5
 - 20.2) Quantification – Utilities Redistribution - Area 5

Section 3: BFDD – Facility D&D

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.4 Project Physical Descriptions
 - 1.4.1 BFDD2 – D&D Subcontract – Plant 2
 - 1) Task #1 – Premobilization
 - 2) Task #2 – Mobilization
 - 3) Task #3 – Building 2A
 - 4) Task #4 – Building 2D
 - 5) Task #5 – Component 2F
 - 6) Task #6 – Component 2H
 - 7) Task #7 – Demobilization
 - 1.4.2 BFDD3 – D&D Subcontract – Plant 3
 - 1) Task #1 – Premobilization
 - 2) Task #2 – Mobilization
 - 3) Task #3 – Building 3B
 - 4) Task #4 – Building 3C
 - 5) Task #5 – Component 3D
 - 6) Task #6 – Building 3E
 - 7) Task #7 – Component 3J
 - 8) Task #8 – Component 3K
 - 9) Task #9 – Building 39A
 - 10) Task #10 – Component 22E
 - 11) Task #11 – Demobilization
 - 1.4.3 BFDD5 – D&D Subcontract – General Sump
 - 1) Task #1 – Premobilization
 - 2) Task #2 – Mobilization
 - 3) Task #3 – Building 2B
 - 4) Task #4 – Building 2C
 - 5) Task #5 – Component 3H
 - 6) Task #6 – Component 18B
 - 7) Task #7 – Building 18D
 - 8) Task #8 – Building 18H
 - 9) Task #9 – Building 3A
 - 10) Task #10 – Building 3L
 - 11) Task #11 – Miscellaneous Pipes and Racks
 - 12) Task #12 – Demobilization
 - 1.4.4 BFDD8 – D&D Subcontract – Plant 8
 - 1) Task #1 – Premobilization
 - 2) Task #2 – Mobilization

- 3) Task #3 - Building 8A
- 4) Task #4 - Building 8B
- 5) Task #5 - Building 8C
- 6) Task #6 - Building 8D
- 7) Task #7 - Component 8E
- 8) Task #8 - Component 8G
- 9) Task #9 - Component 8H
- 10) Task #10 - Demobilization
- 1.4.5 BFDDH - D&D Subcontract - Health and Safety Building
 - 1) Task #1 - Premobilization
 - 2) Task #2 - Mobilization
 - 3) Task #3 - Building 53A
 - 4) Task #4 - Demobilization
- 1.4.6 BFDDQ - D&D Subcontract - Liquid Storage
 - 1) Task #1 - Premobilization
 - 2) Task #2 - Mobilization
 - 3) Task #3 - Building 26A
 - 4) Task #4 - Component 26B
 - 5) Task #5 - Building 28D
 - 6) Task #6 - Building 45A
 - 7) Task #7 - Building 80
 - 8) Task #8 - Demobilization
- 1.4.7 BFDDP - D&D Subcontract - Pilot Plant
 - 1) Task #1 - Premobilization
 - 2) Task #2 - Mobilization
 - 3) Task #3 - Building 13A
 - 4) Task #4 - Component 13B
 - 5) Task #5 - Building 13C
 - 6) Task #6 - Component 13D
 - 7) Task #7 - Building 37
 - 8) Task #8 - Building 54A
 - 9) Task #9 - Building 54B
 - 10) Task #10 - Building 54C
 - 11) Task #11 - Demobilization
- 1.4.8 BFddb - D&D Subcontract - Laboratory
 - 1) Task #1 - Premobilization
 - 2) Task #2 - Mobilization
 - 3) Task #3 - Building 15A
 - 4) Task #4 - Building 15B
 - 5) Task #5 - Building 15C
 - 6) Task #6 - Demobilization
- 1.4.9 BFDDA - D&D Subcontract - Administration
 - 1) Task #1 - Premobilization
 - 2) Task #2 - Mobilization
 - 3) Task #3 - Building 11
 - 4) Task #4 - Building 14A

- 5) Task #5 - Building 14B
- 6) Task #6 - Component 20K
- 7) Task #7 - Building 53B
- 8) Task #8 - Building 46
- 9) Task #9 - Building 31A
- 10) Task #10 - Demobilization

1.4.10 BFDDE – D&D Subcontract – East Warehouse

- 1) Task #1 – Premobilization
- 2) Task #2 - Mobilization
- 3) Task #3 - Component 20D
- 4) Task #4 - Building 77
- 5) Task #5 - Building 79
- 6) Task #6 - Building 82A
- 7) Task #7 - Demobilization

1.4.11 BFDDM – D&D Subcontract – Miscellaneous Structures

- 1) Task #1 - Component 5F (Plant 6 Covered Storage Pad)
- 2) Task #2 - Component 12E (Maintenance Storage Shed)
- 3) Task #3 - Component 12F (Maintenance Storage Shed)
- 4) Task #4 - Building 12G (Restored Area Maintenance)
- 5) Task #5 – Component 16B (Electrical Substation)
- 6) Task #6 - Component 16C (Electrical Panels and Transformer)
- 7) Task #7 – Component 16F (Trailer Substation #1)
- 8) Task #8 – Component 16G (Trailer Substation #2)
- 9) Task #9 – Component 20E (Well House #1)
- 10) Task #10 - Component 20F (Well House #2)
- 11) Task #11 - Component 20G (Well House #3)
- 12) Task #12 – Component 22B (Storm Sewer Lift Station)
- 13) Task #13 – Component 22D (Scale House and Weigh Scale)
- 14) Task #14 – Component 23 (Meteorological Tower)
- 15) Task #15 – Component 25C (Sewer Lift Station Building)
- 16) Task #16 – Component 26C (Main Electrical Substation Riser/Strainer House)
- 17) Task #17 – Building 28E (Guard Post at OSDF South Entrance)
- 18) Task #18 – Building 28G (Guard Post NW of Building 45)
- 19) Task #19 – Building 28H (Guard Post South of K-65 Area)
- 20) Task #20 – Building 28J (Security Checkpoint – South Access Road)
- 21) Task #21 – Building 28K (Security Checkpoint – East Parking Lot)
- 22) Task #22 – Building 28L (Guard Post – N. Construction Access Road)
- 23) Task #23 – Building 28M (Guard Post on “F” Street)
- 24) Task #24 – Building 30D (Sampling Line Processing)
- 25) Task #25 – Building 50 (Maintenance Storage Building)
- 26) Task #26 – Building 52A (RTRAK Building)
- 27) Task #27 – Building 52B (ASTD SCEP Building)

- 28) Task #28 – Building 60 (Quonset Hut #1)
- 29) Task #29 – Building 61 (Quonset Hut #2)
- 30) Task #30 – Building 62 (Quonset Hut #3)
- 31) Task #31 – Building 68 (Pilot Plant Warehouse)
- 32) Task #32 – Building 93A (Southwest Boiler House)
- 33) Task #33 – Component G-008 (Pipe Bridges)
- 34) Task #34 – Building TS-08 (Environmental Monitoring Equipment Storage)
- 35) Task #35 – Trailer T1 (FF)
- 36) Task #36 – Trailer T2 (Rad Safety)
- 37) Task #37 – Trailer T3 (Wise Construction)
- 38) Task #38 – Trailer T4 (Multimedia Visual Storage)
- 39) Task #39 – Trailer T5 (FF Construction)
- 40) Task #40 – Trailer T6 (Restrooms)
- 41) Task #41 – Trailer T7 (FF)
- 42) Task #42 – Trailer T8 (Wise Construction)
- 43) Task #43 – Trailer 12 (CRU4-DLS)
- 44) Task #44 – Trailer T17 (FF)
- 45) Task #45 – Trailer T18 (Break Trailer)
- 46) Task #46 – Trailer T19 (Rad Safety)
- 47) Task #47 – Trailer T23 (10 Plex)
- 48) Task #48 – Trailer T24 (7 Plex – North)
- 49) Task #49 – Trailer T25 (7 Plex – South)
- 50) Task #50 – Trailer T26 (Waste Management)
- 51) Task #51 – Trailer T29 (Computer)
- 52) Task #52 – Trailer T30 (Computer)
- 53) Task #53 – Trailer T33 (Shipping Office)
- 54) Task #54 – Trailer T34 (FF)
- 55) Task #55 – Trailer T35 (FF)
- 56) Task #56 – Trailer T36 (Heavy Equipment Operators)
- 57) Task #57 – Trailer T40 (Thorium Overpack)
- 58) Task #58 – Trailer T41 (Waste Certification – QA)
- 59) Task #59 – Trailer T42 (Respirator Washing Facility)
- 60) Task #60 – Trailer T43 (Restoration)
- 61) Task #61 – Trailer T44 (FF Maintenance)
- 62) Task #62 – Trailer T45 (Environmental Monitoring)
- 63) Task #63 – Trailer T46 (Environmental Monitoring)
- 64) Task #64 – Trailer T49 (Bio-Assay Semi-Trailer)
- 65) Task #65 – Trailer T40 (Rad Safety)
- 66) Task #66 – Trailer T57 (Rad Safety)
- 67) Task #67 – Trailer T58 (Construction Office)
- 68) Task #68 – Trailer T59 (FF Waste Management)
- 69) Task #69 – Trailer T60 (Environmental Monitoring)
- 70) Task #70 – Trailer T61 (Startup Group)
- 71) Task #71 – Trailer T62 (Startup Group)
- 72) Task #72 – Trailer T65 (Plant 1 Pad MC&A Office)

- 73) Task #73 – Trailer T66 (RIMIA Tri-Plex)
- 74) Task #74 – Trailer T67 (Rad. Tech.)
- 75) Task #75 – Trailer T68 (CRU1 Office)
- 76) Task #76 – Trailer T69 (Control Point - RIMIA)
- 77) Task #77 – Trailer T71 (Safe Shutdown)
- 78) Task #78 – Trailer T72 (Safe Shutdown)
- 79) Task #79 – Trailer T74 (ARASA Changeout Facility)
- 80) Task #80 – Trailer T75 (Multimedia Services)
- 81) Task #81 – Trailer T82 (Capital Project)
- 82) Task #82 – Trailer T83 (Capital Project)
- 83) Task #83 – Trailer T84 (Capital Project)
- 84) Task #84 – Trailer T85 (Capital Project)
- 85) Task #85 – Trailer T86 (Capital Project)
- 86) Task #86 – Trailer T87 (Capital Project)
- 87) Task #87 – Trailer T89 (WPA Men's Changeout)
- 88) Task #88 – Trailer T90 (WPA Women's Changeout)
- 89) Task #89 – Trailer T91 (WPA Men's Changeout)
- 90) Task #90 – Trailer T92 (WPA Breakroom)
- 91) Task #91 – Trailer T93 (Radiation Control Unit Quad)
- 92) Task #92 – Trailer T94 (Radiation Control Unit Quad)
- 93) Task #93 – Trailer T95 (Radiation Control Unit Quad)
- 94) Task #94 – Trailer T96 (Radiation Control)
- 95) Task #95 – Trailer T97 (FF Office – CRU4)
- 96) Task #96 – Trailer T98 (OSDF)
- 97) Task #97 – Trailer T100 (FF Office)
- 98) Task #98 – Trailer T103 (Storage)
- 99) Task #99 – Trailer T108 (IAWWTF)
- 100) Task #100 – Trailer T109 (IAWWTF)
- 101) Task #101 – Trailer T117 (CRU4 Construction Support Office)
- 102) Task #102 – Trailer T118 (CRU4 Support Office)
- 103) Task #103 – Trailer T119 (Restrooms)
- 104) Task #104 – Trailer T121 (FF Office)
- 105) Task #105 – Trailer T122 (Storage)
- 106) Task #106 – Trailer T127 (OEPA – Part of T68)
- 107) Task #107 – Trailer T128 (Mixed Waste)
- 108) Task #108 – Trailer T129 (OEPA – Part of T68)
- 109) Task #109 – Trailer T130 (Breakroom)
- 110) Task #110 – Trailer T131 (Breakroom)
- 111) Task #111 – Trailer T132 (Kelchner Office)
- 112) Task #112 – Trailer T135 (Boiler Maintenance)
- 113) Task #113 – Trailer T138 (Southern Waste Unit Site Prep. Group)
- 114) Task #114 – Trailer T139 (Southern Waste Unit Site Prep. Group)
- 115) Task #115 – Trailer T141 (Maintenance Storage)
- 116) Task #116 – Trailer T142 (Maintenance Storage)

- 117) Task #117 – Trailer T164 (FF Training)
- 118) Task #118 – Trailer T165 (FF Training)
- 119) Task #119 – Trailer T166 (Industrial Relations)
- 120) Task #120 – Trailer T167 (Industrial Relations)
- 121) Task #121 – Trailer T168 (ARASA Contractor)
- 122) Task #122 – Trailer T169 (ARASA Contractor)
- 123) Task #123 – Trailer T170 (ARASA Contractor)
- 124) Task #124 – Trailer T171 (ARASA Contractor)
- 125) Task #125 – Trailer T172 (FCNDP)
- 126) Task #126 – Trailer T173 (FCNDP)
- 127) Task #127 – Trailer T173 (FCNDP)
- 128) Task #128 – Trailer T175 (FCNDP)
- 129) Task #129 – Trailer T176 (FCNDP)
- 130) Task #130 – Trailer T177 (FCNDP)
- 131) Task #131 – Trailer T178 (FCNDP)
- 132) Task #132 – Trailer T179 (FCNDP)
- 133) Task #133 – Trailer T181 (FF Office)
- 134) Task #134 – Trailer T182 (FF Office)
- 135) Task #135 – Trailer T183 (FF Office)
- 136) Task #136 – Trailer T186 (OSDF Office Trailer)
- 137) Task #137 – Trailer T191 (Breakroom/Cooldown)
- 138) Task #138 – Trailer T301 (IT Corp.)
- 139) Task #139 – Trailer T305 (Environmental Monitoring)
- 140) Task #140 – Trailer T306 (Environmental Monitoring)
- 141) Task #141 – Trailer T312 (Cell 1 Personal Cool Down)
- 142) Task #142 – Trailer T313 (ARASA Admin. Office “A”)
- 143) Task #143 – Trailer T314 (ARASA Admin. Office “B”)
- 144) Task #144 – Trailer T315 (ARASA Laboratory Office)
- 145) Task #145 – Trailer T316 (ARASA Laboratory “A”)
- 146) Task #146 – Trailer T317 (ARASA Laboratory “B”)
- 147) Task #147 – Trailer T318 (ARASA MHB/RCLO Pow. Mod. Bldg.)
- 148) Task #148 – Trailer T319 (ARASA Breakroom)
- 149) Task #149 – Trailer T320 (ARASA Laundry/Resp. Wash Facility)
- 150) Task #150 – Trailer T321 (ARASA MHB Rad. Cont. Trailer)
- 151) Task #151 – Trailer T322 (ARASA Supervisor’s Office)
- 152) Task #152 – Trailer T323 (ARASA Control Room)
- 153) Task #153 – Trailer T325 (ARASA GCS/WTS Pow. Mod. Bldg.)
- 154) Task #154 – Trailer T326 (ARASA Cont. Emissions Mon. Tr.)
- 155) Task #155 – Trailer T327 (Weigh Scale Ticket Office)
- 156) Task #156 – Trailer T330 (Doffing Trailer)
- 157) Task #157 – Trailer T502 (IT Corp. ARASA)
- 158) Task #158 – Trailer T505 (Facilities Shutdown Break Trailer)
- 159) Task #159 – Trailer T506 (Office)

- 160) Task #160 – Trailer T512 (Break – M. Ravenscraft)
- 161) Task #161 – Trailer T513 (Construction Coordinators)
- 162) Task #162 – Trailer T514 (Construction – Conference Room)
- 163) Task #163 – Trailer T520 (S&W Office)
- 164) Task #164 – Trailer T529 (Storage)
- 165) Task #165 – Trailer T540 (Triplex – Porter Breakroom)
- 166) Task #166 – Trailer T603 (Storage – Semi-Trailer)
- 167) Task #167 – Trailer T604 (Maintenance Storage Semi Trailer)
- 168) Task #168 – Trailer T608 (Break Trailer – Waste Management)
- 169) Task #169 – Building 24C – Locomotive Engine House/Repair and Truck Washing Facility
- 170) Task #170 – Railroad Track
- 1.4.12 BFDDN – D&D Subcontract – Building 64/65
 - 1) Task #1 – Premobilization
 - 2) Task #2 - Mobilization
 - 3) Task #3 - Building 64 (Thorium Warehouse)
 - 4) Task #4 - Building 65 (Old Plant 5 Warehouse)
 - 5) Task #5 – Demobilization
- 1.4.13 BFDD1 – D&D Subcontract – Plant 1, Phase II
 - 1) Task #1 - Premobilization
 - 2) Task #2 - Mobilization
 - 3) Task #3 - Building 1B
 - 4) Task #4 - Component 20A
 - 5) Task #5 - Building 30A
 - 6) Task #6 - Building 56A
 - 7) Task #7 - Building 71
 - 8) Task #8 - Components TS-4, TS-5, and TS-6
 - 9) Task #9 - Component 16N
- 1.4.14 BFDD5 – D&D Subcontract – Plant 5
 - 1) Task #1 – Premobilization
 - 2) Task #2 - Mobilization
 - 3) Task #3 - Building 5A
 - 4) Task #4 - Component 5D
 - 5) Task #5 - Demobilization
- 1.4.15 BFDD6 – D&D Subcontract – Plant 6
 - 1) Task #1 - Premobilization
 - 2) Task #2 - Mobilization
 - 3) Task #3 - Building 6A
 - 4) Task #4 – Building 6B
 - 5) Task #5 – Building 6C
 - 6) Task #6 – Building 6D
 - 7) Task #7 – Building 6E
 - 8) Task #8 - Building 6F
 - 9) Task #9 - Building 6G
 - 10) Task #10 - Demobilization

- 1.5 Project Plan/Technical Scope and Quantification
 - 1.5.1 BFDD2 – D&D Subcontract – Plant 2
 - 1) Task #1 – Premobilization
 - 1.1) Plan/Scope - Premobilization
 - 1.2) Quantification – Premobilization
 - 2) Task #2 – Mobilization
 - 2.1) Plan/Scope - Mobilization
 - 2.2) Quantification - Mobilization
 - 3) Task #3 – Building 2A
 - 3.1) Plan/Scope - Building 2A
 - 3.2) Quantification - Building 2A
 - 4) Task #4 - Building 2D
 - 4.1) Plan/Scope - Building 2D
 - 4.2) Quantification - Building 2D
 - 5) Task #5 - Component 2F
 - 5.1) Plan/Scope - Component 2F
 - 5.2) Quantification - Component 2F
 - 6) Task #6 – Component 2H
 - 6.1) Plan/Scope - Component 2H
 - 6.2) Quantification – Component 2H
 - 7) Task #7 – Demobilization
 - 7.1) Plan/Scope - Demobilization
 - 7.2) Quantification – Demobilization
 - 1.5.2 BFDD3 – D&D Subcontract – Plant 3
 - 1) Task #1 – Premobilization
 - 1.1) Plan/Scope - Premobilization
 - 1.2) Quantification – Premobilization
 - 2) Task #2 - Mobilization
 - 2.1) Plan/Scope - Mobilization
 - 2.2) Quantification – Mobilization
 - 3) Task #3 - Building 3B
 - 3.1) Plan/Scope - Building 3B
 - 3.2) Quantification – Building 3B
 - 4) Task #4 – Building 3C
 - 4.1) Plan/Scope - Building 3C
 - 4.2) Quantification – Building 3C
 - 5) Task #5 – Component 3D
 - 5.1) Plan/Scope – Component 3D
 - 5.2) Quantification – Component 3D
 - 6) Task #6 – Building 3E
 - 6.1) Plan/Scope – Component 3E
 - 6.2) Quantification – Component 3E
 - 7) Task #7 – Component 3J
 - 7.1) Plan/Scope – Component 3J
 - 7.2) Quantification – Component 3J
 - 8) Task #8 – Component 3K

- 8.1) Plan/Scope – Component 3K
- 8.2) Quantification – Component 3K
- 9) Task #9 – Building 39A
 - 9.1) Plan/Scope – Building 39A
 - 9.2) Quantification – Building 39A
- 10) Task #10 – Component 22E
 - 10.1) Plan/Scope – Component 22E
 - 10.2) Quantification – Component 22E
- 11) Task #11 – Demobilization
 - 11.1) Plan/Scope – Demobilization
 - 11.2) Quantification – Demobilization
- 1.5.3 BFDDS – D&D Subcontract – General Sump
 - 1) Task #1 - Premobilization
 - 1.1) Plan/Scope - Premobilization
 - 1.2) Quantification – Premobilization
 - 2) Task #2 - Mobilization
 - 2.1) Plan/Scope - Mobilization
 - 2.2) Quantification – Mobilization
 - 3) Task #3 - Building 2B
 - 3.1) Plan/Scope - Building 2B
 - 3.2) Quantification – Building 2B
 - 4) Task #4 – Building 2C
 - 4.1) Plan/Scope - Building 2C
 - 4.2) Quantification – Building 2C
 - 5) Task #5 – Component 3H
 - 5.1) Plan/Scope – Component 3H
 - 5.2) Quantification – Component 3H
 - 6) Task #6 – Building 18B
 - 6.1) Plan/Scope – Component 18B
 - 6.2) Quantification – Component 18B
 - 7) Task #7 – Component 18D
 - 7.1) Plan/Scope – Component 18D
 - 7.2) Quantification – Component 18D
 - 8) Task #8 – Component 18H
 - 8.1) Plan/Scope – Component 18H
 - 8.2) Quantification – Component 18H
 - 9) Task #9 – Building 3A
 - 9.1) Plan/Scope – Building 3A
 - 9.2) Quantification – Building 3A
 - 10) Task #10 – Building 3L
 - 10.1) Plan/Scope – Building 3L
 - 10.2) Quantification – Building 3L
 - 11) Task #11 – Miscellaneous Pipe and Pipe Racks
 - 11.1) Plan/Scope – Building 3L
 - 11.2) Quantification – Building 3L
 - 12) Task #12 – Demobilization

- 12.1) Plan/Scope – Demobilization
- 12.2) Quantification – Demobilization
- 1.5.4 BFDD8 – D&D Subcontract – Plant 8
 - 1) Task #1 - Premobilization
 - 1.1) Plan/Scope - Premobilization
 - 1.2) Quantification – Premobilization
 - 2) Task #2 - Mobilization
 - 2.1) Plan/Scope - Mobilization
 - 2.2) Quantification – Mobilization
 - 3) Task #3 - Building 8A
 - 3.1) Plan/Scope - Building 8A
 - 3.2) Quantification – Building 8A
 - 4) Task #4 – Building 8B
 - 4.1) Plan/Scope - Building 8B
 - 4.2) Quantification – Building 8B
 - 5) Task #5 – Building 8C
 - 5.1) Plan/Scope – Building 8C
 - 5.2) Quantification – Building 8C
 - 6) Task #6 – Building 8D
 - 6.1) Plan/Scope – Building 8D
 - 6.2) Quantification – Building 8D
 - 7) Task #7 – Building 8E
 - 7.1) Plan/Scope – Building 8E
 - 7.2) Quantification – Building 8E
 - 8) Task #8 – Building 8G
 - 8.1) Plan/Scope – Building 8G
 - 8.2) Quantification – Building 8G
 - 9) Task #9 – Building 8H
 - 9.1) Plan/Scope – Building 8H
 - 9.2) Quantification – Building 8H
 - 10) Task #10 – Demobilization
 - 10.1) Plan/Scope – Demobilization
 - 10.2) Quantification – Demobilization
- 1.5.5 GFDDH – D&D Subcontract – Health and Safety Building
 - 1) Task #1 - Premobilization
 - 1.1) Plan/Scope - Premobilization
 - 1.2) Quantification – Premobilization
 - 2) Task #2 - Mobilization
 - 2.1) Plan/Scope - Mobilization
 - 2.2) Quantification – Mobilization
 - 3) Task #3 – Building 53A
 - 3.1) Plan/Scope - Building 53A
 - 3.2) Quantification – Building 53A
 - 4) Task #4 – Demobilization
 - 4.1) Plan/Scope - Demobilization
 - 4.2) Quantification – Demobilization

1.5.6 BFDDQ – D&D Subcontract – Liquid Storage

- 1) Task #1 – Premobilization
 - 1.1) Plan/Scope – Premobilization
 - 1.2) Quantification – Premobilization
- 2) Task #2 – Mobilization
 - 2.1) Plan/Scope - Mobilization
 - 2.2) Quantification – Mobilization
- 3) Task #3 – Building 26A
 - 3.1) Plan/Scope – Building 26A
 - 3.2) Quantification – Building 26A
- 4) Task #4 – Component 26B
 - 4.1) Plan/Scope – Component 26B
 - 4.2) Quantification – Component 26B
- 5) Task #5 – Building 28D
 - 5.1) Plan/Scope – Building 28D
 - 5.2) Quantification – Building 28D
- 6) Task #6 – Building 45A
 - 6.1) Plan/Scope - Building 45A
 - 6.2) Quantification – Building 45A
- 7) Task #7 – Building 80
 - 7.1) Plan/Scope – Building 80
 - 7.2) Quantification – Building 80
- 8) Task #8 – Demobilization
 - 8.1) Plan/Scope – Demobilization
 - 8.2) Quantification – Demobilization

1.5.7 BFDDP – D&D Subcontract – Pilot Plant

- 1) Task #1 - Premobilization
 - 1.1) Plan/Scope - Premobilization
 - 1.2) Quantification – Premobilization
- 2) Task #2 - Mobilization
 - 2.1) Plan/Scope - Mobilization
 - 2.2) Quantification – Mobilization
- 3) Task #3 – Building 13A
 - 3.1) Plan/Scope – Building 13A
 - 3.1) Quantification – Building 13A
- 4) Task #4 – Component 13B
 - 4.1) Plan/Scope – Component 13B
 - 4.2) Quantification – Component 13B
- 5) Task #5 – Building 13C
 - 5.1) Plan/Scope – Building 13C
 - 5.2) Quantification – Building 13C
- 6) Task #6 – Component 13D
 - 6.1) Plan/Scope – Component 13D
 - 6.2) Quantification – Component 13D
- 7) Task #7 – Building 37
 - 7.1) Plan/Scope – Building 37

- 7.2) Quantification – Building 37
- 8) Task #8 – Building 54A
 - 8.1) Plan/Scope – Building 54A
 - 8.2) Quantification – Building 54A
- 9) Task #9 – Building 54B
 - 9.1) Plan/Scope – Building 54B
 - 9.2) Quantification – Building 54B
- 10) Task #10 – Building 54C
 - 10.1) Plan/Scope – Building 54C
 - 10.2) Quantification – Building 54C
- 11) Task #11 – Demobilization
 - 11.1) Plan/Scope – Demobilization
 - 11.2) Quantification – Demobilization
- 1.5.8 BFDDDB – D&D Subcontract – Laboratory
 - 1) Task #1 – Premobilization
 - 1.1) Plan/Scope – Premobilization
 - 1.2) Quantification – Premobilization
 - 2) Task #2 – Mobilization
 - 2.1) Plan/Scope – Mobilization
 - 2.2) Quantification – Mobilization
 - 3) Task #3 – Building 15A
 - 3.1) Plan/Scope – Building 15A
 - 3.2) Quantification – Building 15A
 - 4) Task #4 – Building 15B
 - 4.1) Plan/Scope – Building 15B
 - 4.2) Quantification – Building 15B
 - 5) Task #5 – Building 15C
 - 5.1) Plan/Scope – Building 15C
 - 5.2) Quantification – Building 15C
 - 6) Task #6 – Demobilization
 - 6.1) Plan/Scope – Demobilization
 - 6.2) Quantification – Demobilization
- 1.5.9 BFDDA – D&D Subcontract – Administration (Includes Electrical Complex)
 - 1) Task #1 - Premobilization
 - 1.1) Plan/Scope – Premobilization
 - 1.2) Quantification – Premobilization
 - 2) Task #2 – Mobilization
 - 2.1) Plan/Scope – Mobilization
 - 2.2) Quantification – Mobilization
 - 3) Task #3 – Building 11
 - 3.1) Plan/Scope – Building 11
 - 3.2) Quantification – Building 11
 - 4) Task #4 – Building 14A
 - 4.1) Plan/Scope - Building 14A
 - 4.2) Quantification – Building 14A

- 5) Task #5 – Building 14B
 - 5.1) Plan/Scope - Building 14B
 - 5.2) Quantification – Building 14B
- 6) Task #6 – Component 20K
 - 6.1) Plan/Scope – Component 20K
 - 6.2) Quantification – Component 20K
- 7) Task #7 – Building 53B
 - 7.1) Plan/Scope – Building 53B
 - 7.2) Quantification – Building 53B
- 8) Task #8 – Building 46
 - 8.1) Plan/Scope - Building 46
 - 8.2) Quantification – Building 46
- 9) Task #9 – Building 31A
 - 9.1) Plan/Scope – Building 31A
 - 9.2) Quantification – Building 31A
- 10) Task #10 – Demobilization
 - 10.1) Plan/Scope – Demobilization
 - 10.2) Quantification – Demobilization
- 1.5.10 BFDDE – D&D Subcontract – East Warehouse
 - 1) Task #1 – Premobilization
 - 1.1) Plan/Scope – Premobilization
 - 1.2) Quantification – Premobilization
 - 2) Task #2 – Mobilization
 - 2.1) Plan/Scope – Mobilization
 - 2.2) Quantification – Mobilization
 - 3) Task #3 – Component 20D
 - 3.1) Plan/Scope – Component 20D
 - 3.2) Quantification – Component 20D
 - 4) Task #4 – Building 77
 - 4.1) Plan/Scope – Building 77
 - 4.2) Quantification – Building 77
 - 5) Task #5 – Building 79
 - 5.1) Plan/Scope – Building 79
 - 5.2) Quantification – Building 79
 - 6) Task #6 – Building 82A
 - 6.1) Plan/Scope – Building 82A
 - 6.2) Quantification – Building 82A
 - 7) Task #7 – Demobilization
 - 7.1) Plan/Scope – Demobilization
 - 7.2) Quantification – Demobilization
- 1.5.11 BFDDM – D&D Subcontract – Miscellaneous
 - 1.1) Plan/Scope - Miscellaneous
 - 1) Task #1 – Component 5F (Plant 5 Covered Storage Pad)
 - 2) Task #2 – Component 12E (Maintenance Storage Shed)
 - 3) Task #3 – Component 12F (Maintenance Storage Shed)

- 4) Task #4 – Building 12G (Restored Area Maintenance Building)
- 5) Task #5 – Component 16B (Electrical Substation)
- 6) Task #6 – Component 16C (Electrical Panels & Transformer)
- 7) Task #7 – Component 16F (Trailer Substation #1)
- 8) Task #8 – Component 16G (Trailer Substation #2)
- 9) Task #9 – Component 20E (Well House #1)
- 10) Task #10 – Component 20F (Well House #2)
- 11) Task #11 – Component 20G (Well House #3)
- 12) Task #12 – Component 22B (Storm Sewer Lift Station)
- 13) Task #13 – Component 22D (Scale House and Weigh Scale)
- 14) Task #14 – Component 23 (Meteorological Tower)
- 15) Task #15 – Component 25C (Sewer Lift Station Building)
- 16) Task #16 – Component 26C (Main Electrical Substation Riser/Strainer House)
- 17) Task #17 – Building 28E (Guard Post at OSDF South Entrance)
- 18) Task #18 – Building 28G (Guard Post NW of Building 45)
- 19) Task #19 – Building 28H (Guard Post South of K-65 Area)
- 20) Task #20 – Building 28J (Security Checkpoint – South Access Road)
- 21) Task #21 – Building 28K (Security Checkpoint – East Parking Lot)
- 22) Task #22 – Building 28L (Guard Post – N. Construction Access Road)
- 23) Task #23 – Building 28M (Guard Post on “F” Street)
- 24) Task #24 – Building 30D (Sampling Line Processing)
- 25) Task #25 – Building 50 (Maintenance Storage Building)
- 26) Task #26 – Building 52A (RTRAK Building)
- 27) Task #27 – Building 52B (ASTD SCEP Building)
- 28) Task #28 – Building 60 (Quonset Hut #1)
- 29) Task #29 – Building 61 (Quonset Hut #2)
- 30) Task #30 – Building 62 (Quonset Hut #3)
- 31) Task #31 – Building 68 (Pilot Plant Warehouse)
- 32) Task #32 – Building 93A (Southwest Boiler House)
- 33) Task #33 – Component G-008 (Pipe Bridges)
- 34) Task #34 – Building TS-08 (Environmental Monitoring Equipment Storage)
- 35) Task #35 – Trailer T1 (FF)
- 36) Task #36 – Trailer T2 (Rad Safety)

- 37) Task #37 – Trailer T3 (Wise Construction)
- 38) Task #38 – Trailer T4 (Multimedia Visual Storage)
- 39) Task #39 – Trailer T5 (FF Construction)
- 40) Task #40 – Trailer T6 (Restrooms)
- 41) Task #41 – Trailer T7 (FF)
- 42) Task #42 – Trailer T8 (Wise Construction)
- 43) Task #43 – Trailer T12 (CRU4-DLS)
- 44) Task #44 – Trailer T17 (FF)
- 45) Task #45 – Trailer T18 (Break Trailer)
- 46) Task #46 – Trailer T19 (Rad Safety)
- 47) Task #47 – Trailer T23 (10 Plex)
- 48) Task #48 – Trailer T24 (7 Plex – North)
- 49) Task #49 – Trailer T25 (7 Plex – South)
- 50) Task #50 – Trailer T26 (Waste Management)
- 51) Task #51 – Trailer T29 (Computer)
- 52) Task #52 – Trailer T30 (Computer)
- 53) Task #53 – Trailer T33 (Shipping Office)
- 54) Task #54 – Trailer T34 (FF)
- 55) Task #55 – Trailer T35 (FF)
- 56) Task #56 – Trailer T36 (Heavy Equipment Operators)
- 57) Task #57 – Trailer T40 (Thorium Overpack)
- 58) Task #58 – Trailer T41 (Waste Certification – QA)
- 59) Task #59 – Trailer T42 (Respirator Washing Facility)
- 60) Task #60 – Trailer T43 (Restoration)
- 61) Task #61 – Trailer T44 (FF Maintenance)
- 62) Task #62 – Trailer T45 (Environmental Monitoring)
- 63) Task #63 – Trailer T46 (Environmental Monitoring)
- 64) Task #64 – Trailer T49 (Bio-Assay Semi-Trailer)
- 65) Task #65 – Trailer T40 (Rad Safety)
- 66) Task #66 – Trailer T57 (Rad Safety)
- 67) Task #67 – Trailer T58 (Construction Office)
- 68) Task #68 – Trailer T59 (FF Waste Management)
- 69) Task #69 – Trailer T60 (Environmental Monitoring)
- 70) Task #70 – Trailer T61 (Startup Group)
- 71) Task #71 – Trailer T62 (Startup Group)
- 72) Task #72 – Trailer T65 (Plant 1 Pad MC&A Office)
- 73) Task #73 – Trailer T66 (RIMIA Tri-Plex)
- 74) Task #74 – Trailer T67 (Rad. Tech.)
- 75) Task #75 – Trailer T68 (CRU1 Office)
- 76) Task #76 – Trailer T69 (Control Point - RIMIA)
- 77) Task #77 – Trailer T71 (Safe Shutdown)
- 78) Task #78 – Trailer T72 (Safe Shutdown)
- 79) Task #79 – Trailer T74 (ARASA Changeout Facility)
- 80) Task #80 – Trailer T75 (Multimedia Services)
- 81) Task #81 – Trailer T82 (Capital Project)
- 82) Task #82 – Trailer T83 (Capital Project)

- 83) Task #83 – Trailer T84 (Capital Project)
- 84) Task #84 – Trailer T85 (Capital Project)
- 85) Task #85 – Trailer T86 (Capital Project)
- 86) Task #86 – Trailer T87 (Capital Project)
- 87) Task #87 – Trailer T89 (WPA Men's Changeout)
- 88) Task #88 – Trailer T90 (WPA Women's Changeout)
- 89) Task #89 – Trailer T91 (WPA Men's Changeout)
- 90) Task #90 – Trailer T92 (WPA Breakroom)
- 91) Task #91 – Trailer T93 (Radiation Control Unit Quad)
- 92) Task #92 – Trailer T94 (Radiation Control Unit Quad)
- 93) Task #93 – Trailer T95 (Radiation Control Unit Quad)
- 94) Task #94 – Trailer T96 (Radiation Control)
- 95) Task #95 – Trailer T97 (FF Office – CRU4)
- 96) Task #96 – Trailer T98 (OSDF)
- 97) Task #97 – Trailer T100 (FF Office)
- 98) Task #98 – Trailer T103 (Storage)
- 99) Task #99 – Trailer T108 (IAWWTF)
- 100) Task #100 – Trailer T109 (IAWWTF)
- 101) Task #101 – Trailer T117 (CRU4 Construction Support Office)
- 102) Task #102 – Trailer T118 (CRU4 Support Office)
- 103) Task #103 – Trailer T119 (Restrooms)
- 104) Task #104 – Trailer T121 (FF Office)
- 105) Task #105 – Trailer T122 (Storage)
- 106) Task #106 – Trailer T127 (OEPA – Part of T68)
- 107) Task #107 – Trailer T128 (Mixed Waste)
- 108) Task #108 – Trailer T129 (OEPA – Part of T68)
- 109) Task #109 – Trailer T130 (Breakroom)
- 110) Task #110 – Trailer T131 (Breakroom)
- 111) Task #111 – Trailer T132 (Kelchner Office)
- 112) Task #112 – Trailer T135 (Boiler Maintenance)
- 113) Task #113 – Trailer T138 (Southern Waste Unit Site Prep. Group)
- 114) Task #114 – Trailer T139 (Southern Waste Unit Site Prep. Group)
- 115) Task #115 – Trailer T141 (Maintenance Storage)
- 116) Task #116 – Trailer T142 (Maintenance Storage)
- 117) Task #117 – Trailer T164 (FF Training)
- 118) Task #118 – Trailer T165 (FF Training)
- 119) Task #119 – Trailer T166 (Industrial Relations)
- 120) Task #120 – Trailer T167 (Industrial Relations)
- 121) Task #121 – Trailer T168 (ARASA Contractor)
- 122) Task #122 – Trailer T169 (ARASA Contractor)
- 123) Task #123 – Trailer T170 (ARASA Contractor)
- 124) Task #124 – Trailer T171 (ARASA Contractor)
- 125) Task #125 – Trailer T172 (FCNDP)

- 126) Task #126 – Trailer T173 (FCNDP)
- 127) Task #127 – Trailer T173 (FCNDP)
- 128) Task #128 – Trailer T175 (FCNDP)
- 129) Task #129 – Trailer T176 (FCNDP)
- 130) Task #130 – Trailer T177 (FCNDP)
- 131) Task #131 – Trailer T178 (FCNDP)
- 132) Task #132 – Trailer T179 (FCNDP)
- 133) Task #133 – Trailer T181 (FF Office)
- 134) Task #134 – Trailer T182 (FF Office)
- 135) Task #135 – Trailer T183 (FF Office)
- 136) Task #136 – Trailer T186 (OSDF Office Trailer)
- 137) Task #137 – Trailer T191 (Breakroom/Cooldown)
- 138) Task #138 – Trailer T301 (IT Corp.)
- 139) Task #139 – Trailer T305 (Environmental Monitoring)
- 140) Task #140 – Trailer T306 (Environmental Monitoring)
- 141) Task #141 – Trailer T312 (Cell 1 Personal Cool Down)
- 142) Task #142 – Trailer T313 (ARASA Admin. Office "A")
- 143) Task #143 – Trailer T314 (ARASA Admin. Office "B")
- 144) Task #144 – Trailer T315 (ARASA Laboratory Office)
- 145) Task #145 – Trailer T316 (ARASA Laboratory "A")
- 146) Task #146 – Trailer T317 (ARASA Laboratory "B")
- 147) Task #147 – Trailer T318 (ARASA MHB/RCLO Pow. Mod. Bldg.)
- 148) Task #148 – Trailer T319 (ARASA Breakroom)
- 149) Task #149 – Trailer T320 (ARASA Laundry/Resp. Wash Facility)
- 150) Task #150 – Trailer T321 (ARASA MHB Rad. Cont. Trailer)
- 151) Task #151 – Trailer T322 (ARASA Supervisor's Office)
- 152) Task #152 – Trailer T323 (ARASA Control Room)
- 153) Task #153 – Trailer T325 (ARASA GCS/WTS Pow. Mod. Bldg.)
- 154) Task #154 – Trailer T326 (ARASA Cont. Emissions Mon. Tr.)
- 155) Task #155 – Trailer T327 (Weigh Scale Ticket Office)
- 156) Task #156 – Trailer T330 (Doffing Trailer)
- 157) Task #157 – Trailer T502 (IT Corp. ARASA)
- 158) Task #158 – Trailer T505 (Facilities Shutdown Break Trailer)
- 159) Task #159 – Trailer T506 (Office)
- 160) Task #160 – Trailer T512 (Break – M. Ravenscraft)
- 161) Task #161 – Trailer T513 (Construction Coordinators)
- 162) Task #162 – Trailer T514 (Construction – Conference Room)
- 163) Task #163 – Trailer T520 (S&W Office)
- 164) Task #164 – Trailer T529 (Storage)

- 165) Task #165 – Trailer T540 (Triplex – Porter Breakroom)
- 166) Task #166 – Trailer T603 (Storage – Semi-Trailer)
- 167) Task #167 – Trailer T604 (Maintenance Storage Semi Trailer)
- 168) Task #168 – Trailer T608 (Break Trailer – Waste Management)
- 169) Task #169 – Building 24C – Locomotive Engine House/Repair and Truck Washing Facility
- 170) Task #170 – Railroad Track
- 1.2) Quantification - Miscellaneous
- 1.5.12 BFDDN – D&D Subcontract – Building 64/65
 - 1) Task #1 - Premobilization – Building 64/65
 - 1.1) Plan/Scope - Premobilization
 - 1.2) Quantification – Premobilization
 - 2) Task #2 - Mobilization
 - 2.1) Plan/Scope - Mobilization
 - 2.2) Quantification – Mobilization
 - 3) Task #3 – Building 64 (Thorium Warehouse)
 - 3.1) Plan/Scope – Building 64 (Thorium Warehouse)
 - 3.2) Quantification - Building 64 (Thorium Warehouse)
 - 4) Task #4 – Building 65 (Old Plant 5 Warehouse)
 - 4.1) Plan/Scope - Building 65 (Old Plant 5 Warehouse)
 - 4.2) Quantification - Building 65 (Old Plant 5 Warehouse)
 - 5) Task #5 – Demobilization
 - 5.1) Plan/Scope – Demobilization
 - 5.2) Quantification – Demobilization
- 1.5.13 BFDD1 – D&D Subcontract – Plant 1, Phase II
 - 1) Task #1 – Premobilization
 - 1.1) Plan/Scope – Premobilization
 - 1.2) Quantification – Premobilization
 - 2) Task #2 – Mobilization
 - 2.1) Plan/Scope – Mobilization
 - 2.2) Quantification – Mobilization
 - 3) Task #3 – Building 1B
 - 3.1) Plan/Scope – Building 1B
 - 3.2) Quantification – Building 1B
 - 4) Task #4 – Building 20A
 - 4.1) Plan/Scope – Building 20A
 - 4.2) Quantification – Building 20A
 - 5) Task #5 - Building 30A
 - 5.1) Plan/Scope – Building 30A
 - 5.2) Quantification – Building 30A
 - 6) Task #6 – Building 56A
 - 6.1) Plan/Scope – Building 56A
 - 6.2) Quantification – Building 56A
 - 7) Task #7 – Building 71

- 7.1) Plan/Scope – Building 71
- 7.2) Quantification – Building 71
- 8) Task #8 - Component TS-04, TS-05, TS-06
 - 8.1) Plan/Scope – Component TS-04, TS-05, TS-06
 - 8.2) Quantification - Component TS-04, TS-05, TS-06
- 9) Task #9 – Component 16N
 - 9.1) Plan/Scope – Component 16N
 - 9.2) Quantification – Components 16N
- 10) Task #10 – Demobilization
 - 10.1) Plan/Scope - Demobilization
 - 10.2) Quantification – Demobilization
- 1.5.14 BFDD5 – D&D Subcontract – Plant 5
 - 1) Task #1 – Premobilization
 - 1.1) Plan/Scope – Premobilization
 - 1.2) Quantification – Premobilization
 - 2) Task #2 – Mobilization
 - 2.1) Plan/Scope – Mobilization
 - 2.2) Quantification – Mobilization
 - 3) Task #3 – Building 5A
 - 3.1) Plan/Scope – Building 5A
 - 3.2) Quantification – Building 5A
 - 4) Task #4 – Component 5D
 - 4.1) Plan/Scope – Component 5D
 - 4.2) Quantification – Component 5D
 - 5) Task #5 – Demobilization
 - 5.1) Plan/Scope – Demobilization
 - 5.2) Quantification – Demobilization
- 1.5.15 BFDD6 – D&D Subcontract – Plant 6
 - 1) Task #1 – Premobilization
 - 1.1) Plan/Scope – Premobilization
 - 1.2) Quantification – Premobilization
 - 2) Task #2 – Mobilization
 - 2.1) Plan/Scope – Mobilization
 - 2.2) Quantification – Mobilization
 - 3) Task #3 – Building 6A
 - 3.1) Plan/Scope – Building 6A
 - 3.2) Quantification – Building 6A
 - 4) Task #4 – Building 6B
 - 4.1) Plan/Scope – Building 6B
 - 4.2) Quantification – Building 6B
 - 5) Task #5 – Building 6C
 - 5.1) Plan/Scope – Building 6C
 - 5.2) Quantification – Building 6C
 - 6) Task #6 – Building 6D
 - 6.1) Plan/Scope – Building 6D
 - 6.2) Quantification – Building 6D

- 7) Task #7 – Building 6E
 - 7.1) Plan/Scope - Building 6E
 - 7.2) Quantification – Building 6E
- 8) Task #8 – Building 6F
 - 8.1) Plan/Scope – Building 6F
 - 8.2) Quantification – Building 6F
- 9) Task #9 – Building 6G
 - 9.1) Plan/Scope - Building 6G
 - 9.2) Quantification – Building 6G
- 10) Task #10 – Demobilization
 - 10.1) Plan/Scope – Demobilization
 - 10.2) Quantification – Demobilization

Section 4: BDFW – Off-site Debris Disposal D&D

1.0 Narrative

1.1 Overview

1.2 Assumptions/Exclusions

1.2.1 Assumptions

1.2.2 Exclusions

1.3 Drivers

1.4 Project Physical Description

1.5 Project Plan/Technical Scope and Quantification

1.5.1 Task #1 - BDFW1 – Administration Complex Off-Site Debris Disposal

- 1) Plan/Scope - Administration Complex Off-Site Debris
- 2) Quantification – Administration Complex Off-Site Debris

1.5.2 Task #2 – BDFW2 – Electrical Complex Off-Site Debris Disposal

- 1) Plan/Scope – Electrical Complex Off-Site Debris Disposal
- 2) Quantification - Electrical Complex Off-Site Debris Disposal

1.5.3 Task #3 – BDFW3 – General Sump Complex Off-Site Debris Disposal

- 1) Plan/Scope - General Sump Complex Off-Site Debris Disposal
- 2) Quantification - General Sump Complex Off-Site Debris Disposal

1.5.4 Task #4 – BDFW4 – Plant 1 Phase II Complex Off-Site Debris Disposal

- 1) Plan/Scope - Plant 1 Phase II Complex Off-Site Debris Disposal
- 2) Quantification - Plant 1 Phase II Complex Off-Site Debris Disposal

1.5.5 Task #5 – BDFW5 – Plant 2 Complex Off-Site Debris Disposal

- 1) Plan/Scope – Plant 2 Complex Off Site Debris Disposal
- 2) Quantification – Plant 2 Complex Off Site Debris Disposal

1.5.6 Task #6 – BDFW6 – Plant 3 Complex Off-Site Debris Disposal

- 1) Plan/Scope – Plant 3 Complex Off-Site Debris Disposal
- 2) Quantification – Plant 3 Complex Off-Site Debris Disposal

1.5.7 Task #7 – BDFW7 – Plant 8 Complex Off-Site Debris Disposal

- 1) Plan/Scope - Plant 8 Complex Off-Site Debris Disposal
- 2) Quantification - Plant 8 Complex Off-Site Debris Disposal

1.5.8 Task #8 – BDFW8 – Liquid Storage Complex Off-Site Debris Disposal

- 1) Plan/Scope – Liquid Storage Complex Off-Site Debris Disposal
- 2) Quantification - Liquid Storage Complex Off-Site Debris Disposal

1.5.9 Task #9 – BDFW9 – Laboratory Complex Off-Site Debris Disposal

- 1) Plan/Scope – Laboratory Complex Off-Site Debris Disposal
- 2) Quantification - Laboratory Complex Off-Site Debris Disposal

1.5.10 Task #10 – BDFWA – Pilot Plant Complex Off-Site Debris Disposal

- 1) Plan/Scope - Pilot Plant Complex Off-Site Debris Disposal
- 2) Quantification - Pilot Plant Complex Off-Site Debris Disposal

1.5.11 Task #11 – BDFWB – East Warehouse Complex Off-Site Debris
Disposal

- 1) Plan/Scope – East Warehouse Complex Off-Site Debris
Disposal
- 2) Quantification - East Warehouse Complex Off-Site Debris
Disposal

Section 1: CECP – OSDF Project Management

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.4 Project Physical Description
 - 1.4.1 CECP1 - OSDF Management and Oversight
 - 1.4.2 CECP2 - OSDF Engineering Staff
 - 1.4.3 CECP3 - OSDF Construction Management
- 2.0 Manpower Plans
 - 2.1 OSDF Project Management and Oversight
 - 2.2 OSDF Engineering Staff
 - 2.3 OSDF Construction Management
- 3.0 Estimate
- 4.0 Risk Plan

Section 2: CAEN – OSDF Engineering

1.0 Narrative

1.1 Overview

- 1.1.1 CAEN1 – OSDF Design
- 1.1.2 CAEN2-CAEN4 – Not Used
- 1.1.3 CAEN5 – OSDF CQC Services
- 1.1.4 CAEN6 – OSDF Title III Services
- 1.1.5 CAEN7 – OSDF Monitoring

1.2 Assumptions/Exclusions

- 1.2.1 Assumptions
- 1.2.2 Exclusions
- 1.2.3 Government-Furnished Equipment/Services

1.3 Drivers

1.4 Project Physical Description

1.5 Project Plan/Technical Scope and Quantification

1.5.1 CAEN1 - OSDF Design

- 1) Task #1 – OSDF CFC Package for Remaining Cell Liner and Final Cover Systems
 - 1.1) Subtask #1 – Procurement
 - 1.1)1 Plan/Scope – Procurement
 - 1.1)2 Quantification – Procurement
 - 1.2) Subtask #2 – Preparation of OSDF CFC Package
 - 1.2)1 Plan/Scope – Preparation of OSDF CFC Package
 - 1.2)2 Quantification – Preparation of OSDF CFC Package
- 2) Task #2 – Support for Procurement of OSDF Construction Subcontractor
 - 2.1) Plan/Scope
 - 2.2) Quantification
- 3) Task #3 – OSDF Infrastructure CFC Packages
 - 3.1) Subtask #1 – Access Control Facility CFC Package
 - 3.1)1 Plan/Scope
 - 3.1)2 Quantification
 - 3.2) Subtask #2 – Removal of Temporary and Interim Leachate Line CFC Package
 - 3.2)1 Plan/Scope
 - 3.2)2 Quantification
 - 3.3) Subtask #3 – OSDF OMTA CFC Packages
 - 3.3)1 Plan/Scope
 - 3.3)2 Quantification
 - 3.4) Subtask #4 – OSDF Construction Water Well CFC Package
 - 3.4)1 Plan/Scope
 - 3.4)2 Quantification
 - 3.5) Subtask #5 – OSDF Air Monitoring Station CFC Package
 - 3.5)1 Plan/Scope
 - 3.5)2 Quantification

Section 2: CAEN – OSDF Engineering (Continued)

- 4) Task #4 – Other OSDF Activities in FY2001
 - 4.1) Subtask #1 – Provide Title III Services
 - 4.1)1 Plan/Scope
 - 4.1)2 Quantification
 - 4.2) Subtask #2 – Provide Support for Review of OSDF Monitoring Data
 - 4.2)1 Plan/Scope
 - 4.2)2 Quantification
- 1.5.2 CAEN2-CAEN4 – Not Used
- 1.5.3 CAEN5 – OSDF CQC Services
 - 1) Task #1 – Selection of CQC Subcontractor
 - 1.1) Plan/Scope
 - 1.2) Quantification
 - 2) Task #2 – CQC Services
 - 2.1) Subtask #1 – CQC Services for Borrow Area Development
 - 2.1)1 Plan/Scope
 - 2.1)2 Quantification
 - 2.2) Subtask #2 – CQC Services for OSDF Liners, Final Cover and Infrastructure Construction
 - 2.2)1 Plan/Scope
 - 2.2)2 Quantification
 - 2.3) Subtask #3 – CQC Services for Impacted Material Placement
 - 2.3)1 Plan/Scope
 - 2.3)2 Quantification
- 1.5.4 CAEN6 - OSDF Title III Services
 - 1) Task #1 – Selection of OSDF Title III Subcontractor
 - 1.1) Plan/Scope
 - 1.2) Quantification
 - 2) Task #2 – Title III Services
 - 2.1) Plan/Scope
 - 2.2) Quantification
- 1.5.5 CAEN7 - OSDF Monitoring and Data Management
 - 1) Plan/Scope
 - 2) Quantification
- 2.0 Schedule
- 3.0 Manpower Plans
 - 3.1 OSDF Design
 - 3.2 CQC Services
 - 3.3 OSDF Title III Services
 - 3.4 OSDF Monitoring and Data Management
- 4.0 Estimate
- 5.0 Risk Plan

Section 3: CBSP – OSDF Infrastructure Construction

1.0 Narrative

1.1 Overview

1.1.1 CBSP1 – OSDF Miscellaneous Infrastructure Projects

1.1.2 Enhanced Permanent LTS Design

1.1.3 Enhanced Permanent LTS Construction

1.2 Assumptions/Exclusions

1.2.1 Assumptions

1.2.2 Exclusions

1.2.3 Government-Furnished Equipment/Services

1.3 Drivers

1.4 Project Physical Description

1.5 Project Plan/Technical Scope and Quantification

1.5.1 CBSP1 - OSDF Miscellaneous Infrastructure Projects

1) Task #1 – Submittals and Procurement

1.1) Subtask #1 - Submittals

1.1)1 Plan/Scope - Submittals

1.1)2 Quantification – Submittals

1.2) Subtask #2 - Procurement

1.2)1 Plan/Scope – Procurement

1.2)2 Quantification – Procurement

2) Task #2 – Relocation of Access Control Facility

2.1) Plan/Scope

2.2) Quantification

3) Task #3 – Phase II Temporary Leachate Removal

3.1) Plan/Scope

3.2) Quantification

4) Task #4 – Equipment Wash Certification

4.1) Plan/Scope

4.2) Quantification

5) Task #5 – Relocate Existing Stockpiles

5.1) Plan/Scope

5.2) Quantification

6) Task #6 – Permanent Power for Air Monitors and Relocation of Air Monitors

7) Task #7 – OMTA Container Area Expansion

7.1) Plan/Scope

7.2) Quantification

8) Task #8 – Construction of New Laydown Area

8.1) Plan/Scope

8.2) Quantification

9) Task #9 – Removal of Temporary Leachate Line – Phase III

9.1) Plan/Scope

9.2) Quantification

10) Task #10 – Construction Water Well

Section 3: CBSP – OSDF Infrastructure Construction (Continued)

- 10.1) Plan/Scope
 - 10.2) Quantification
 - 11) Task #11 – Demolish Existing North Wheel Wash at Impacted Material Haul Road
 - 11.1) Plan/Scope
 - 11.2) Quantification
 - 12) Task #12 – Remove Underground/Above-Ground Interim Leachate Line.
 - 12.1) Plan/Scope
 - 12.2) Quantification
 - 13) Task #13 – Demobilization – D&D of OSDF Infrastructure Facility
 - 13.1) Plan/Scope
 - 13.2) Quantification
 - 14) Task #14 – Phase I Temporary Leachate Removal
 - 14.1) Plan/Scope
 - 14.2) Quantification
 - 15) Task #15 – Closeout
 - 15.1) Plan/Scope
 - 15.2) Quantification
- 2.0 Schedule
 - 3.0 Manpower Plans
 - 3.1 OSDF Miscellaneous Infrastructure Projects
 - 4.0 Estimate
 - 5.0 Risk Plan

Section 4: CCPL – OSDF Construction

1.0 Narrative

1.1 Overview

- 1.1.1 CCPL1 – OSDF Construction Matrixed Labor
- 1.1.2 CCPL2 – OSDF Borrow Area Development
- 1.1.3 CCPL3 – OSDF Placement
- 1.1.4 CCPL4 – OSDF Phase III Construction, Materials, Services
- 1.1.5 CCPLA – OSDF Cell #2 Cap
- 1.1.6 CCPLB – OSDF Cell #3 Cap
- 1.1.7 CCPLC – OSDF Cell #4 Liner
- 1.1.8 CCPLD – OSDF Cell #4 Cap
- 1.1.9 CCPLE – OSDF Cell #5 Liner
- 1.1.10 CCPLF – OSDF Cell #5 Cap
- 1.1.11 CCPLG – OSDF Cell #6 Liner
- 1.1.12 CCPLH – OSDF Cell #6 Cap
- 1.1.13 CCPLJ – OSDF Cell #7 Liner
- 1.1.14 CCPLK – OSDF Cell #7 Cap

1.2 Assumptions/Exclusions

- 1.2.1 Assumptions
 - 1.2.1.1 General Assumptions
 - 1.2.1.2 Specific Assumptions
- 1.2.2 Exclusions
- 1.2.3 Government-Furnished Equipment/Services

1.3 Drivers

1.4 Project Physical Description

1.5 Project Plan/Technical Scope and Quantification

- 1.5.1 CCPL1 - OSDF Construction Matrixed Labor
 - 1) Task #1 – Matrixed Labor
 - 1.1) Plan/Scope
 - 1.2) Quantification
- 1.5.2 CCPL2 - OSDF Borrow Area Development
 - 1) Task #1 – Submittals and Procurement
 - 1.1) Subtask #1 – Submittals
 - 1.1)1 Plan/Scope
 - 1.1)2 Quantification
 - 1.2) Subtask #2 – Procurement
 - 1.2)1 Plan/Scope
 - 1.2)2 Quantification
 - 2) Task #2 – Site Preparation
 - 2.1) Plan/Scope
 - 2.2) Quantification
 - 3) Task #3 – Excavate and Screen Clay Material
 - 3.1) Plan/Scope
 - 3.2) Quantification

Section 4: CCPL – OSDF Construction (Continued)

- 4) Task #4 – Excavate and Stockpile Contouring Layer, Vegetative Layer and Topsoil Layer
 - 4.1) Plan/Scope
 - 4.2) Quantification
- 5) Task #5 – Interim Restoration
 - 5.1) Plan/Scope
 - 5.2) Quantification
- 6) Task #6 – Closeout
 - 6.1) Plan/Scope
 - 6.2) Quantification
- 1.5.3 CCPL3 - OSDF Placement
 - 1) Task #1 - Submittals
 - 1.1) Plan/Scope
 - 1.2) Quantification
 - 2) Task #2 – Site Preparation
 - 2.1) Plan/Scope
 - 2.2) Quantification
 - 3) Task #3 – Receive Impacted Material at the OMTA
 - 3.1) Plan/Scope
 - 3.2) Quantification
 - 4) Task #4 – Removal of Impacted Portion of the OSDF Haul Road
 - 4.1) Plan/Scope
 - 4.2) Quantification
 - 5) Task #5 – Placement of the 12-Inch Protection Layer (Cell Liner)
 - 5.1) Plan/Scope
 - 5.2) Quantification
 - 6) Task #6 - Placement of 24 Inches of Select Impacted Material (Cell Liner)
 - 6.1) Plan/Scope
 - 6.2) Quantification
 - 7) Task #7 – Place of 36 Inches Select Impacted Material (Cell Cap)
 - 7.1) Plan/Scope
 - 7.2) Quantification
 - 8) Task #8 – Placement of Impacted Material
 - 8.1) Plan/Scope
 - 8.2) Quantification
 - 9) Task #9 – Closeout
 - 9.1) Plan/Scope
 - 9.2) Quantification
- 1.5.4 CCPL4 - OSDF Phase III Construction, Materials, Services
 - 1) Task #1 – Submittals and Procurement
 - 1.1) Subtask #1 – Submittals
 - 1.1)1 Plan/Scope
 - 1.1)2 Quantification

Section 4: CCPL – OSDF Construction (Continued)

- 1.2) Subtask #2 – Procurement
 - 1.2)1 Plan/Scope
 - 1.2)2 Quantification
- 2) Task #2 – OSDF Phase III Construction
 - 2.1) Plan/Scope
 - 2.2) Quantification
- 3) Task #3 – Application of ConCover 180 in Cell #2 and Cell #3
 - 3.1) Plan/Scope
 - 3.2) Quantification
- 4) Task #4 – FY01 Impacted Material Placement
 - 4.1) Plan/Scope
 - 4.2) Quantification
- 5) Task #5 – OMTA Expansion/Transite Transfer Area
 - 5.1) Plan/Scope
 - 5.2) Quantification
- 6) Task #6 – OMTA Operations/Bulk Debris
 - 6.1) Plan/Scope
 - 6.2) Quantification
- 1.5.5 CCPLA - OSDF Cell #2 Cap
 - 1) Task #1 – Submittals and Procurement
 - 1.1) Subtask #1 – Submittals
 - 1.1)1 Plan/Scope
 - 1.1)2 Quantification
 - 1.2) Subtask #2 – Procurement
 - 1.2)1 Plan/Scope
 - 1.2)2 Quantification
 - 2) Task #2 – Site Preparation
 - 2.1) Plan/Scope
 - 2.2) Quantification
 - 3) Task #3 – Contouring Layer
 - 3.1) Plan/Scope
 - 3.2) Quantification
 - 4) Task #4 – Clay Cap
 - 4.1) Plan/Scope
 - 4.2) Quantification
 - 5) Task #5 – Geosynthetic Cap
 - 5.1) Plan/Scope
 - 5.2) Quantification
 - 6) Task #6 – Drainage Layer
 - 6.1) Plan/Scope
 - 6.2) Quantification
 - 7) Task #7 – Biointrusion Barrier
 - 7.1) Plan/Scope
 - 7.2) Quantification

Section 4: CCPL – OSDF Construction (Continued)

- 8) Task #8 – Filter Layer
 - 8.1) Plan/Scope
 - 8.2) Quantification
- 9) Task #9 – Vegetative Layer
 - 9.1) Plan/Scope
 - 9.2) Quantification
- 10) Task #10 – Topsoil Layer
 - 10.1) Plan/Scope
 - 10.2) Quantification
- 11) Task #11 – Permanent Vegetation
 - 11.1) Plan/Scope
 - 11.2) Quantification
- 12) Task #12 – Closeout
 - 12.1) Plan/Scope
 - 12.2) Quantification
- 1.5.6 CCPLB - OSDF Cell #3 Cap
 - 1) Task #1 – Submittals and Procurement
 - 1.1) Subtask #1 – Submittals
 - 1.1)1 Plan/Scope
 - 1.1)2 Quantification
 - 1.2) Subtask #2 – Procurement
 - 1.2)1 Plan/Scope
 - 1.2)2 Quantification
 - 2) Task #2 – Site Preparation
 - 2.1) Plan/Scope
 - 2.2) Quantification
 - 3) Task #3 – Contouring Layer
 - 3.1) Plan/Scope
 - 3.2) Quantification
 - 4) Task #4 – Clay Cap
 - 4.1) Plan/Scope
 - 4.2) Quantification
 - 5) Task #5 – Geosynthetic Cap
 - 5.1) Plan/Scope
 - 5.2) Quantification
 - 6) Task #6 – Drainage Layer
 - 6.1) Plan/Scope
 - 6.2) Quantification
 - 7) Task #7 – Biointrusion Barrier
 - 7.1) Plan/Scope
 - 7.2) Quantification
 - 8) Task #8 – Filter Layer
 - 8.1) Plan/Scope
 - 8.2) Quantification

Section 4: CCPL – OSDF Construction (Continued)

- 9) Task #9 – Vegetative Layer
 - 9.1) Plan/Scope
 - 9.2) Quantification
- 10) Task #10 – Topsoil Layer
 - 10.1) Plan/Scope
 - 10.2) Quantification
- 11) Task #11 – Permanent Vegetation
 - 11.1) Plan/Scope
 - 11.2) Quantification
- 12) Task #12 – Closeout
 - 12.1) Plan/Scope
 - 12.2) Quantification
- 1.5.7 CCPLC - OSDF Cell #4 Liner
 - 1) Task #1 – Submittals and Procurement
 - 1.1) Subtask #1 – Submittals
 - 1.1)1 Plan/Scope
 - 1.1)2 Quantification
 - 1.2) Subtask #2 – Procurement
 - 1.2)1 Plan/Scope
 - 1.2)2 Quantification
 - 2) Task #2 – Site Preparation
 - 2.1) Plan/Scope
 - 2.2) Quantification
 - 3) Task #3 – Clay Liner
 - 3.1) Plan/Scope
 - 3.2) Quantification
 - 4) Task #4 – Primary and Secondary Geosynthetic Liners
 - 4.1) Plan/Scope
 - 4.2) Quantification
 - 5) Task #5 – Primary and Secondary Drainage Layers
 - 5.1) Plan/Scope
 - 5.2) Quantification
 - 6) Task #6 – Construction of Perimeter Clay Wedges and Access Ramp
 - 6.1) Plan/Scope
 - 6.2) Quantification
 - 7) Task #7 – Catchment Area
 - 7.1) Plan/Scope
 - 7.2) Quantification
 - 8) Task #8 – Video Inspection of HDPE Pipe
 - 8.1) Plan/Scope
 - 8.2) Quantification
 - 9) Task #9 – Horizontal Monitoring Wells (HMW) #4 and #5
 - 9.1) Plan/Scope
 - 9.2) Quantification

Part 1: AMGT - Management

Section 1: AMGT1 – Management Staff

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.4 Scope of Work
 - 1.4.1 Facility and Project Support Management
 - 1.4.2 Quantification/~~Premium~~ Overtime
 - 1.4.3 ODCs
 - 1.4.4 Subcontracts/Materials
- 2.0 Schedule
- 3.0 Manpower Plans
 - 3.1 Management Staff
- 4.0 Estimate
- 5.0 Risk Plan

Part 2: ASVC – Infrastructure Services
Section 1: ASVC1 – Infrastructure Services

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.4 Scope of Work
 - 1.4.1 Property Management
 - 1.4.1)1 Plan/Scope
 - 1.4.1)2 Quantification/~~Premium~~ Overtime
 - 1.4.1)3 ODCs
 - 1.4.1)4 Subcontracts/Material
 - 1.4.2 Property Control
 - 1.4.2)1 Plan/Scope
 - 1.4.2)2 Quantification/~~Premium~~ Overtime
 - 1.4.2)3 ODCs
 - 1.4.2)4 Subcontracts/Materials
 - 1.4.3 RIMIA/Stores
 - 1.4.3)1 Plan/Scope
 - 1.4.3)2 Quantification/~~Premium~~ Overtime
 - 1.4.3)3 ODCs
 - 1.4.3)4 Subcontracts/Materials
 - 1.4.4 Property Disposition
 - 1.4.4)1 Plan/Scope
 - 1.4.4)2 Quantification/~~Premium~~ Overtime
 - 1.4.4)3 ODCs
 - 1.4.4)4 Subcontracts/Materials
- 2.0 Manpower Plans
 - 2.1 Infrastructure Services
 - 2.2 Transportation
 - 2.3 Maintenance
 - 2.4 Porters/Laundry
 - 2.5 Facilities Support
 - 2.6 Labor Hour Support and Planning
- 3.0 Estimate
- 4.0 Risk Plan

Part 2: ASVC - Infrastructure Services
Section 2: ASVC2 - Transportation

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.4 Scope of Work
 - 1.4.1 Management Support
 - 1.4.1)1 Plan/Scope
 - 1.4.1)2 Quantification/Overtime
 - 1.4.1)3 ODCs
 - 1.4.1)4 Subcontracts/Materials
 - 1.4.2 Vehicle Garage
 - 1.4.2)1 Plan/Scope
 - 1.4.2)2 Quantification/Overtime
 - 1.4.2)3 ODCs
 - 1.4.2)4 Subcontracts/Materials
 - 1.4.3 Transportation Deliveries
 - 1.4.3)1 Plan/Scope
 - 1.4.3)2 Quantification/Overtime
 - 1.4.3)3 ODCs
 - 1.4.3)4 Subcontracts/Materials
 - 1.4.4 Heavy Equipment Support
 - 1.4.4)1 Plan/Scope
 - 1.4.4)2 Quantification/Overtime
 - 1.4.4)3 ODCs
 - 1.4.4)4 Subcontracts/Materials

Part 2: ASVC – Infrastructure Services
Section 3: ASVC3 - Maintenance

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.3.1 Administrative
 - 1.3.2 Physical
 - 1.4 Scope of Work
 - 1.4.1 Management Support
 - 1.4.1)1 Plan/Scope
 - 1.4.1)2 Quantification/Overtime
 - 1.4.1)3 ODCs
 - 1.4.1)4 Subcontracts/Materials
 - 1.4.2 Administrative Support
 - 1.4.2)1 Plan/Scope
 - 1.4.2)2 Quantification/Overtime
 - 1.4.2)3 ODCs
 - 1.4.2)4 Subcontracts/Materials
 - 1.4.3 General Laborers
 - 1.4.3)1 Plan/Scope
 - 1.4.3)2 Quantification/Overtime
 - 1.4.3)3 ODCs
 - 1.4.3)4 Subcontracts/Materials
 - 1.4.4 General Maintenance
 - 1.4.4)1 Plan Scope
 - 1.4.4)2 Quantification/Overtime
 - 1.4.4)3 ODCs
 - 1.4.4)4 Subcontracts/Materials

Part 2: ASVC- Infrastructure Services
Section 4: ASVC4 – Porters/Laundry

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.4 Scope of Work
 - 1.4.1 Management Support
 - 1.4.1)1 Plan/Scope
 - 1.4.1)2 Quantification/Overtime
 - 1.4.1)3 ODCs
 - 1.4.1)4 Subcontracts/Materials
 - 1.4.2 Porters
 - 1.4.2)1 Plan/Scope
 - 1.4.2)2 Quantification/Overtime
 - 1.4.2)3 ODCs
 - 1.4.2)4 Subcontracts/Materials
 - 1.4.3 Laundry
 - 1.4.3)1 Plan/Scope
 - 1.4.3)2 Quantification/Overtime
 - 1.4.3)3 ODCs
 - 1.4.3)4 Subcontracts/Materials

Part 2: ASVC - Infrastructure Services
Section 5: ASVC5 – Facilities Support

1.0 Narrative

1.1 Overview

- 1.1.1 Management Support
- 1.1.2 Facilities Engineering
- 1.1.3 Facilities
- 1.1.4 Utilities
- 1.1.5 Space Management
- 1.1.6 Radiological Surveillance

1.2 Assumptions/Exclusions

- 1.2.1 Assumptions
- 1.2.2 Exclusions
- 1.2.3 Government-Furnished Equipment/Services

1.3 Drivers

- 1.3.1 Physical
- 1.3.2 Administrative

1.4 Scope of Work

1.4.1 Management Support

- 1.4.1)1 Plan/Scope
- 1.4.1)2 Quantification/Overtime
- 1.4.1)3 ODCs
- 1.4.1)4 Subcontracts/Materials

1.4.2 Facilities Engineering

- 1.4.2)1 Plan/Scope
- 1.4.2)2 Quantification/Overtime
- 1.4.2)3 ODCs
- 1.4.2)4 Subcontracts/Materials

1.4.3 Facilities

- 1.4.3)1 Plan/Scope
- 1.4.3)2 Quantification/Overtime
- 1.4.3)3 ODCs
- 1.4.3)4 Subcontracts/Materials

1.4.4 Utilities

- 1.4.4)1 Plan/Scope
- 1.4.4)2 Quantification/Overtime
- 1.4.4)3 ODCs
- 1.4.4)4 Subcontracts/Materials

1.4.5 Space Management

- 1.4.5)1 Plan/Scope
- 1.4.5)2 Quantification/Overtime
- 1.4.5)3 ODCs
- 1.4.5)4 Subcontracts/Materials

Part 2: ASVC - Infrastructure Services
Section 5: ASVC5 – Facilities Support (Continued)

- 1.4.6 Radiological Surveillance
 - 1.4.6)1 Plan/Scope
 - 1.4.6)2 Quantification/Overtime
 - 1.4.6)3 ODCs
 - 1.4.6)4 Subcontracts/Materials

Part 2: ASVC – Infrastructure Services
Section 6: ASVC6 - Labor Hour Support and Planning

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.4 Scope of Work
 - 1.4.1 Management Support
 - 1.4.1)1 Plan/Scope
 - 1.4.1)2 Quantification/Overtime
 - 1.4.1)3 ODCs
 - 1.4.1)4 Subcontracts/Materials
 - 1.4.2 Porters
 - 1.4.2)1 Plan/Scope
 - 1.4.2)2 Quantification/Overtime
 - 1.4.2)3 ODCs
 - 1.4.2)4 Subcontracts/Materials
 - 1.4.3 Laundry
 - 1.4.3)1 Plan/Scope
 - 1.4.3)2 Quantification/Overtime
 - 1.4.3)3 ODCs
 - 1.4.3)4 Subcontracts/Materials

Part 3: AFLD – Field Operations

Section 1: AFLD1 – Quality Control Operations

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.4 Scope of Work
 - 1.4.1 Quality Control Operations
 - 1.4.1)1 Plan/Scope
 - 1.4.1)2 Quantification/~~Premium~~ Overtime
 - 1.4.1)3 ODCs
 - 1.4.1)4 Subcontracts/Materials
- 2.0 Manpower Plans
 - 2.1 Quality Control Operations
 - 2.2 ES&H and Radiological Operations
 - 2.3 Field Procurement
- 3.0 Estimate
- 4.0 Risk Plan

Part 3: AFLD – Field Operations

Section 2: AFLD3 – ES&H and Radiological Operations

1.0 Narrative

1.1 Overview

1.2 Assumptions/Exclusions

1.2.1 Assumptions

1.2.2 Exclusions

1.2.3 Government-Furnished Equipment/Services

1.3 Drivers

1.3.1 Administrative

1.3.2 Physical

1.4 Scope of Work

1.4.1 Field Operations/ES&H and Rad

1.4.1)1 Plan/Scope

1.4.1)2 Quantification/~~Premium~~ Overtime

1.4.1)3 ODCs

1.4.1)4 Subcontracts/Materials

Part 3: AFLD – Field Operations
Section 3: AFLD4 – Field Procurement

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.3.1 Administrative
 - 1.3.2 Physical
 - 1.4 Scope of Work
 - 1.4.1 Field Procurement
 - 1.4.1)1 Plan/Scope
 - 1.4.1)2 Quantification/~~Premium~~ Overtime
 - 1.4.1)3 ODCs
 - 1.4.1)4 Subcontracts/Materials

Part 4: APRJ – FACILITY PROJECTS

Section 1: APRJ1 – Temporary Facility Leases and Purchases

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.4 Scope of Work
 - 1.4.1 Temporary Facility Leases and Purchases
 - 1.4.1)1 Plan/Scope
 - 1.4.1)2 Quantification/~~Premium~~ Overtime
 - 1.4.1)3 ODCs
 - 1.4.1)4 Subcontracts/Materials
- 2.0 Estimate
- 3.0 Risk Plan

Part 4: APRJ – FACILITY PROJECTS
Section 2: APRJ2 – New Trailer Complex

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.4 Scope of Work
 - 1.4.1 New Trailer Complex
 - 1.4.1)1 Plan/Scope
 - 1.4.1)2 Quantification Table

Part 4: APRJ – FACILITY PROJECTS

Section 3: APRJ3 – Health and Safety Building Relocation

1.0 Narrative

1.1 Overview

- 1.1.1 Medical Complex
- 1.1.2 Communications Center
- 1.1.3 T-45/T-46 Renovation
- 1.1.4 Building 44A (T-1) Renovation
- 1.1.5 Services Building Renovation

1.2 Assumptions/Exclusions

1.2.1 Assumptions

- 1.2.1.1 Medical Complex
- 1.2.1.2 Communications Center
- 1.2.1.3 T-45/T-46 Renovation
- 1.2.1.4 Building 44A (T-1) Renovation
- 1.2.1.5 Services Building Renovation

1.2.2 Exclusions

- 1.2.2.1 Medical Complex
- 1.2.2.2 Communications Center
- 1.2.2.3 T-45/T-46 Renovation
- 1.2.2.4 Building 44A (T-1) Renovation
- 1.2.2.5 Services Building Renovation

1.2.3 Government-Furnished Equipment/Services

1.3 Drivers

1.4 Project Physical Description

1.5 Project Plan/Technical Scope and Quantification

1.5.1 Medical Complex

- 1.5.1)1 Plan/Scope
- 1.5.1)2 Quantification Table

1.5.2 Communications Center

- 1.5.2)1 Plan/Scope
- 1.5.2)2 Quantification Table

1.5.3 T-45/T-46 Renovation

- 1.5.3)1 Plan/Scope
- 1.5.3)2 Quantification Table

1.5.4 Building 44A (T-1) Renovation

- 1.5.4)1 Plan/Scope
- 1.5.4)2 Technical Scope/Quantification Table

1.5.5 Services Building Renovation

- 1.5.5)1 Plan/Scope
- 1.5.5)2 Quantification Table

Part 4: APRJ – FACILITY PROJECTS

Section 4: APRJ4 – Miscellaneous Relocation Projects

1.0 Narrative

1.1 Overview

- 1.1.1 Renovation of Southwest Boiler House (93A)
- 1.1.2 Relocation of Trailer 86 and Trailer 87
- 1.1.3 Relocation of Trailer 84
- 1.1.4 Construction of Pre-Engineered Building for Equipment Disposition Function and Renovation of T-33

1.2 Assumptions/Exclusions

1.2.1 Assumptions

- 1.2.1.1 Renovation of Southwest Boiler House (93A)
- 1.2.1.2 Relocation of Trailer 86 and Trailer 87
- 1.2.1.3 Relocation of Trailer 84
- 1.2.1.4 Construction of Pre-Engineered Building for Equipment Disposition Function and Renovation of T-33

1.2.2 Exclusions

- 1.2.2.1 Renovation of Southwest Boiler House (93A)
- 1.2.2.2 Relocation of Trailer 86 and Trailer 87
- 1.2.2.3 Relocation of Trailer 84
- 1.2.2.4 Construction of Pre-Engineered Building for Equipment Disposition Function and Renovation of T-33

1.2.3 Government-Furnished Equipment/Services

1.3 Drivers

- 1.3.1 Renovation of Southwest Boiler House (93A)
- 1.3.2 Relocation of Trailer 86 and Trailer 87
- 1.3.3 Relocation of Trailer 84
- 1.3.4 Construction of Pre-Engineered Building for Equipment Disposition Function and Renovation of T-33

1.4 Project Physical Description

- 1.4.1 Renovation of Southwest Boiler House (93A)
- 1.4.2 Relocation of Trailer 86 and Trailer 87
- 1.4.3 Relocation of Trailer 84
- 1.4.4 Construction of Pre-Engineered Building for Equipment Disposition Function and Renovation of T-33

1.5 Project Plan/Technical Scope and Quantification

- 1.5.1 Renovation of Southwest Boiler House (93A)
 - 1.5.1)1 Plan/Scope
 - 1.5.1)2 Quantification Table
- 1.5.2 Relocation of Trailer 86 and Trailer 87
 - 1.5.2)1 Plan/Scope
 - 1.5.2)2 Quantification Table

Part 4: APRJ – FACILITY PROJECTS

Section 4: APRJ4 – Miscellaneous Relocation Projects (Continued)

- 1.5.3 Relocation of Trailer 84
 - 1.5.3)1 Plan/Scope
 - 1.5.3)2 Quantification Table
- 1.5.4 Construction of Pre-Engineered Building for Equipment Disposition
Function and Renovation of T-33
 - 1.5.4)1 Plan/Scope
 - 1.5.4)2 Quantification Table

Part 4: APRJ – FACILITY PROJECTS

Section 5: APRJ5 – Upgrades

1.0 Narrative

1.1 Overview

~~1.1.1 Roof/HVAC~~

1.1.1 Road Upgrades

1.1.2 Plant 6 Water Management System

1.2 Assumptions/Exclusions

1.2.1 Assumptions

~~1.2.1.1 Roof/HVAC~~

1.2.1.1 Road Upgrades

1.2.1.2 Plant 6 Water Management System

1.2.2 Exclusions

~~1.2.2.1 Roof/HVAC~~

~~1.2.2.1.1~~ 1.2.2.1 Road Upgrades

1.2.2.2 Plant 6 Water Management System

1.2.3 Government-Furnished Equipment/Services

1.3 Drivers

~~1.3.1 Roof/HVAC~~

~~1.3.1.1~~ 1.3.1 Road Upgrades

1.3.2 Plant 6 Water Management System

1.4 Project Physical Description

~~1.4.1 Roof/HVAC~~

~~1) Task #1 – Laboratory Building (11) South Corridor Roof Replacement~~

~~1.4.1.1~~ 1.4.1 Road Upgrades

1) Task #1 – West Parking Lot Area and South Access Road

2) Task #2 – East Parking Lot Area and North Access Road

1.4.2 Plant 6 Water Management System

1.5 Project Plan/Technical Scope and Quantification

~~1.5.1 Roof/HVAC~~

~~1) Task #1 – Laboratory Building (11) South Corridor Roof Replacement~~

~~1.1) Plan/Scope~~

~~1.2) Quantification Table~~

1.5.2 Road Upgrades

1) Task #1 – West Parking Lot Area and South Access Road

1.1) Plan/Scope

2) Task #2 – East Parking Lot Area and North Access Road

2.1) Plan/Scope

2.2) Quantification

2.3) ODCs

2.4) Subcontract

1.5.3 Plant 6 Water Management System

1) Plan/Scope

2) Quantification

Section 1: BFDP – Project Management

1.0 Narrative

- 1.1 Overview
- 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government Furnished Equipment/Service
- 1.3 Drivers
- 1.4 Project Physical Description
 - 1.4.1 BFDP – Project Management
 - 1) Task #1 – D&D Project Management
 - 2) Task #2 – Planning and Procurement
 - 3) Task #3 – Construction Management
 - 4) Task #4 – Project Closeout
 - 5) Task #5 – On-Site Waste Disposal
- 1.5 Project Plan/Technical Scope and Qualification
 - 1.5.1 BDFP – D&D Project Management
 - 1) Task #1 – Facility D&D Project Management
 - 1.1) Plan/Scope – Facility D&D Project Management
 - 1.2) Quantification – Facility D&D Project Management
 - 2) Task #2 – Planning and Procurement
 - 2.1) Plan/Scope – Planning and Procurement
 - 2.2) Quantification – Planning and Procurement
 - 3) Task #3 – Construction Management
 - 3.1) Plan/Scope – Construction Management
 - 3.2) Quantification – Construction Management
 - 4) Task #4 – Project Closeout
 - 4.1) Plan/Scope – Project Closeout
 - 4.2) Quantification – Project Closeout
 - 5) Onsite Waste Disposal
 - 5.1) Plan/Scope – Onsite Waste Disposal
 - 5.2) Quantification

Section 2: BFUD – Facility Isolation and Utility Redistribution

1.0 Narrative

- 1.1 Overview**
- 1.2 Assumptions/Exclusions**
 - 1.2.1 Assumptions**
 - 1.2.2 Exclusions**
 - 1.2.3 Government-Furnished Equipment/Services**
- 1.3 Drivers**
- 1.4 Project Physical Description**
 - 1.4.1 BFUD – Facility Isolation**
 - 1) Task #1 – Facility Isolation – Plant 2
 - 2) Task #2 – Facility Isolation - Plant 3
 - 3) Task #3 – Facility Isolation - General Sump
 - 4) Task #4 – Facility Isolation - Plant 8
 - 5) Task #5 – Facility Isolation - Health and Safety Building
 - 6) Task #6 – Facility Isolation - Liquid Storage
 - 7) Task #7 – Facility Isolation - Pilot Plant
 - 8) Task #8 – Facility Isolation - Laboratory
 - 9) Task #9 – Facility Isolation - Administration (Includes Electrical Complex)
 - 10) Task #10 – Facility Isolation - East Warehouse
 - 11) Task #11 – Facility Isolation – Miscellaneous Structures
 - 12) Task #12 – Facility Isolation - Building 64/65
 - 13) Task #13 – Facility Isolation - Plant 1, Phase II
 - 14) Task #14 – Facility Isolation - Plant 5
 - 15) Task #15 – Facility Isolation - Plant 6
 - 16) Task #16 – Facility Isolation – Area 3A
 - 17) Task #17 – Facility Isolation - Area 3B
 - 18) Task #18 – Facility Isolation - Area 4A
 - 19) Task #19 – Facility Isolation - Area 4B
 - 20) Task #20 – Facility Isolation - Area 5
 - 1.4.2 BFUD – Utility Redistribution**
 - 1) Task #1 – Utility Redistribution – Plant 2
 - 2) Task #2 – Utility Redistribution - Plant 3
 - 3) Task #3 – Utility Redistribution - General Sump
 - 4) Task #4 – Utility Redistribution - Plant 8
 - 5) Task #5 – Utility Redistribution - Health and Safety Building
 - 6) Task #6 – Utility Redistribution - Liquid Storage
 - 7) Task #7 – Utility Redistribution - Pilot Plant
 - 8) Task #8 – Utility Redistribution - Laboratory
 - 9) Task #9 – Utility Redistribution - Administration (Includes Electrical Complex)
 - 10) Task #10 – Utility Redistribution - East Warehouse
 - 11) Task #11 – Utility Redistribution - Miscellaneous Structures

- 12) Task #12 – Utility Redistribution - Building 64/65
 - 13) Task #13 – Utility Redistribution - Plant 1, Phase II
 - 14) Task #14 – Utility Redistribution - Plant 5
 - 15) Task #15 – Utility Redistribution - Plant 6
 - 16) Task #16 – Utility Redistribution - Area 3A
 - 17) Task #17 – Utility Redistribution - Area 3B
 - 18) Task #18 – Utility Redistribution - Area 4A
 - 19) Task #19 – Utility Redistribution – Area 4B
 - 20) Task #20 – Utility Redistribution - Area 5
- 1.5 Project Plan/Technical Scope and Quantification
- 1.5.1 BFUD1 – Facility Isolation
- 1) Task #1 – Facility Isolation - Plant 2
 - 1.1) Plan/Scope – Facility Isolation - Plant 2
 - 1.2) Quantification – Facility Isolation - Plant 2
 - 2) Task #2 – Facility Isolation - Plant 3
 - 2.1) Plan/Scope – Facility Isolation - Plant 3
 - 2.2) Quantification – Facility Isolation - Plant 3
 - 3) Task #3 – Facility Isolation - General Sump
 - 3.1) Plan/Scope - Facility Isolation - General Sump
 - 3.2) Quantification – Facility Isolation - General Sump
 - 4) Task #4 – Facility Isolation - Plant 8
 - 4.1) Plan/Scope - Facility Isolation - Plant 8
 - 4.2) Quantification – Facility Isolation - Plant 8
 - 5) Task #5 – Facility Isolation - Health and Safety Building
 - 5.1) Plan/Scope - Facility Isolation - Health and Safety Building
 - 5.2) Quantification – Facility Isolation - Health and Safety Building
 - 6) Task #6 – Facility Isolation - Liquid Storage
 - 6.1) Plan/Scope - Facility Isolation - Liquid Storage
 - 6.2) Quantification – Facility Isolation - Liquid Storage
 - 7) Task #7 – Facility Isolation - Pilot Plant
 - 7.1) Plan/Scope - Facility Isolation - Pilot Plant
 - 7.2) 7.2) Quantification – Facility Isolation - Pilot Plant
 - 8) Task #8 – Facility Isolation – Laboratory
 - 8.1) Plan/Scope - Facility Isolation - Laboratory
 - 8.2) Quantification – Facility Isolation - Laboratory
 - 9) Task #9 – Facility Isolation - Administration (Includes Electrical Complex)
 - 9.1) Plan/Scope - Facility Isolation - Administration (Includes Electrical Complex)
 - 9.2) Quantification – Facility Isolation - Administration (Includes Electrical Complex)
 - 10) Task #10 – Facility Isolation - East Warehouse
 - 10.1) Plan/Scope - Facility Isolation - East Warehouse
 - 10.2) Quantification - Facility Isolation - East Warehouse

- 11) Task #11 – Facility Isolation - Miscellaneous Structures
 - 11.1) Plan/Scope - Facility Isolation - Miscellaneous Structures
 - 11.2) Quantification – Facility Isolation - Miscellaneous Structures
- 12) Task #12 – Facility Isolation - Building 64/65
 - 12.1) Plan/Scope - Facility Isolation - Building 64/65
 - 12.2) Quantification – Facility Isolation - Building 64/65
- 13) Task #13 – Facility Isolation - Plant 1, Phase II
 - 13.1) Plan/Scope - Facility Isolation - Plant 1, Phase II
 - 13.2) Quantification – Facility Isolation - Plant 1, Phase II
- 14) Task #14 – Facility Isolation - Plant 5
 - 14.1) Plan/Scope - Facility Isolation - Plant 5
 - 14.2) Quantification - Facility Isolation - Plant 5
- 15) Task #15 – Facility Isolation - Plant 6
 - 15.1) Plan/Scope - Facility Isolation - Plant 6
 - 15.2) Quantification - Facility Isolation - Plant 6
- 16) Task #16 – Facility Isolation – Area 3A
 - 16.1) Plan/Scope - Facility Isolation – Area 3A
 - 16.2) Quantification - Facility Isolation – Area 3A
- 17) Task #15 – Facility Isolation – Area 3B
 - 17.1) Plan/Scope - Facility Isolation – Area 3B
 - 17.2) Quantification - Facility Isolation – Area 3B
- 18) Task #18 – Facility Isolation – Area 4A
 - 18.1) Plan/Scope - Facility Isolation – Area 4A
 - 18.2) Quantification - Facility Isolation – Area 4A
- 19) Task #19 – Facility Isolation - Area 4B
 - 19.1) Plan/Scope - Facility Isolation - Area 4B
 - 19.2) Quantification – Facility Isolation - Area 4B
- 20) Task #20 – Facility Isolation - Area 5
 - 20.1) Plan/Scope - Facility Isolation - Area 5
 - 20.2) Quantification – Facility Isolation - Area 5
- 1.5.2 BFUD2 – Utility Redistribution
 - 1) Task #1 – Utility Redistribution - Plant 2
 - 1.1) Plan/Scope – Utilities Redistribution - Plant 2
 - 1.2) Quantification – Utilities Redistribution - Plant 2
 - 2) Task #2 – Utilities Redistribution - Plant 3
 - 2.1) Plan/Scope – Utilities Redistribution - Plant 3
 - 2.2) 2.2) Quantification - Utilities Redistribution - Plant 3
 - 3) Task #3 – Utilities Redistribution - General Sump
 - 3.1) Plan/Scope - Utilities Redistribution - General Sump
 - 3.2) Quantification – Utilities Redistribution - General Sump
 - 4) Task #4 – Utilities Redistribution - Plant 8
 - 4.1) Plan/Scope - Utilities Redistribution - Plant 8
 - 4.2) Quantification – Utilities Redistribution - Plant 8
 - 5) Task #5 – Utilities Redistribution - Health and Safety Building

- 5.1) Plan/Scope - Utilities Redistribution - Health and Safety Building
- 5.2) Quantification - Utilities Redistribution - Health and Safety Building
- 6) Task #6 - Utilities Redistribution - Liquid Storage
 - 6.1) Plan/Scope - Utilities Redistribution - Liquid Storage
 - 6.2) Quantification - Utilities Redistribution - Liquid Storage
- 7) Task #7 - Utilities Redistribution - Pilot Plant
 - 7.1) Plan/Scope - Utilities Redistribution - Pilot Plant
 - 7.2) Quantification - Utilities Redistribution - Pilot Plant
- 8) Task #8 - Utilities Redistribution - Laboratory
 - 8.1) Plan/Scope - Utilities Redistribution - Laboratory
 - 8.2) Quantification - Utilities Redistribution - Laboratory
- 9) Task #9 - Utilities Redistribution - Administration (Includes Electrical Complex)
 - 9.1) Plan/Scope - Utilities Redistribution - Administration (Includes Electrical Complex)
 - 9.2) Quantification - Utilities Redistribution - Administration (Includes Electrical Complex)
- 10) Task #10 - Utilities Redistribution - East Warehouse
 - 10.1) Plan/Scope - Utilities Redistribution - East Warehouse
 - 10.2) Quantification - Utilities Redistribution - East Warehouse
- 11) Task #11 - Utilities Redistribution - Miscellaneous Structures
 - 11.1) Plan/Scope - Utilities Redistribution - Miscellaneous Structures
 - 11.2) Quantification - Utilities Redistribution - Miscellaneous Structures
- 12) Task #12 - Utilities Redistribution - Building 64/65
 - 12.1) Plan/Scope - Utilities Redistribution - Building 64/65
 - 12.2) Quantification - Utilities Redistribution - Building 64/65
- 13) Task #13 - Utilities Redistribution - Plant 1, Phase II
 - 13.1) Plan/Scope - Utilities Redistribution - Plant 1, Phase II
 - 13.2) Quantification - Utilities Redistribution - Plant 1, Phase II
- 14) Task #14 - Utilities Redistribution - Plant 5
 - 14.1) Plan/Scope - Utilities Redistribution - Plant 5
 - 14.2) Quantification - Utilities Redistribution - Plant 5
- 15) Task #15 - Utilities Redistribution - Plant 6
 - 15.1) Plan/Scope - Utilities Redistribution - Plant 6
 - 15.2) Quantification - Utilities Redistribution - Plant 6
- 16) Task #16 - Utilities Redistribution - Area 3A
 - 16.1) Plan/Scope - Utilities Redistribution - Area 3A
 - 16.2) Quantification - Utilities Redistribution - Area 3A
- 17) Task #15 - Utilities Redistribution - Area 3B
 - 17.1) Plan/Scope - Utilities Redistribution - Area 3B

- 17.2) Quantification - Utilities Redistribution – Area 3B
- 18) Task #18 – Utilities Redistribution – Area 4A
 - 18.1) Plan/Scope - Utilities Redistribution – Area 4A
 - 18.2) 18.2) Quantification - Utilities Redistribution – Area 4A
- 19) Task #19 – Utilities Redistribution - Area 4B
 - 19.1) Plan/Scope - Utilities Redistribution - Area 4B
 - 19.2) 19.2) Quantification – Utilities Redistribution - Area 4B
- 20) Task #20 – Utilities Redistribution - Area 5
 - 20.1) Plan/Scope - Utilities Redistribution - Area 5
 - 20.2) Quantification – Utilities Redistribution - Area 5

Section 3: BFDD – Facility D&D

1.0 Narrative

1.1 Overview

1.2 Assumptions/Exclusions

1.2.1 Assumptions

1.2.2 Exclusions

1.2.3 Government-Furnished Equipment/Services

1.3 Drivers

1.4 Project Physical Descriptions

1.4.1 BFDD2 – D&D Subcontract – Plant 2

- 1) Task #1 – Premobilization
- 2) Task #2 – Mobilization
- 3) Task #3 – Building 2A
- 4) Task #4 – Building 2D
- 5) Task #5 – Component 2F
- 6) Task #6 – Component 2H
- 7) Task #7 – Demobilization

1.4.2 BFDD3 – D&D Subcontract – Plant 3

- 1) Task #1 – Premobilization
- 2) Task #2 – Mobilization
- 3) Task #3 – Building 3B
- 4) Task #4 – Building 3C
- 5) Task #5 – Component 3D
- 6) Task #6 – Building 3E
- 7) Task #7 – Component 3J
- 8) Task #8 – Component 3K
- 9) Task #9 – Building 39A
- 10) Task #10 – Component 22E
- 11) Task #11 – Demobilization

1.4.3 BFDD5 – D&D Subcontract – General Sump

- 1) Task #1 – Premobilization
- 2) Task #2 – Mobilization
- 3) Task #3 – Building 2B
- 4) Task #4 – Building 2C
- 5) Task #5 – Component 3H
- 6) Task #6 – Component 18B
- 7) Task #7 – Building 18D
- 8) Task #8 – Building 18H
- 9) Task #9 – Building 3A
- 10) Task #10 – Building 3L
- 11) Task #11 – Miscellaneous Pipes and Racks
- 12) Task #12 – Demobilization

1.4.4 BFDD8 – D&D Subcontract – Plant 8

- 1) Task #1 – Premobilization
- 2) Task #2 – Mobilization

- 3) Task #3 - Building 8A
- 4) Task #4 - Building 8B
- 5) Task #5 - Building 8C
- 6) Task #6 - Building 8D
- 7) Task #7 - Component 8E
- 8) Task #8 - Component 8G
- 9) Task #9 - Component 8H
- 10) Task #10 - Demobilization
- 1.4.5 BFDDH - D&D Subcontract - Health and Safety Building
 - 1) Task #1 - Premobilization
 - 2) Task #2 - Mobilization
 - 3) Task #3 - Building 53A
 - 4) Task #4 - Demobilization
- 1.4.6 BFDDQ - D&D Subcontract - Liquid Storage
 - 1) Task #1 - Premobilization
 - 2) Task #2 - Mobilization
 - 3) Task #3 - Building 26A
 - 4) Task #4 - Component 26B
 - 5) Task #5 - Building 28D
 - 6) Task #6 - Building 45A
 - 7) Task #7 - Building 80
 - 8) Task #8 - Demobilization
- 1.4.7 BFDDP - D&D Subcontract - Pilot Plant
 - 1) Task #1 - Premobilization
 - 2) Task #2 - Mobilization
 - 3) Task #3 - Building 13A
 - 4) Task #4 - Component 13B
 - 5) Task #5 - Building 13C
 - 6) Task #6 - Component 13D
 - 7) Task #7 - Building 37
 - 8) Task #8 - Building 54A
 - 9) Task #9 - Building 54B
 - 10) Task #10 - Building 54C
 - 11) Task #11 - Demobilization
- 1.4.8 BFDDB - D&D Subcontract - Laboratory
 - 1) Task #1 - Premobilization
 - 2) Task #2 - Mobilization
 - 3) Task #3 - Building 15A
 - 4) Task #4 - Building 15B
 - 5) Task #5 - Building 15C
 - 6) Task #6 - Demobilization
- 1.4.9 BFDDA - D&D Subcontract - Administration
 - 1) Task #1 - Premobilization
 - 2) Task #2 - Mobilization
 - 3) Task #3 - Building 11
 - 4) Task #4 - Building 14A

- 5) Task #5 - Building 14B
- 6) Task #6 - Component 20K
- 7) Task #7 - Building 53B
- 8) Task #8 - Building 46
- 9) Task #9 - Building 31A
- 10) Task #10 - Demobilization
- 1.4.10 BFDDE – D&D Subcontract – East Warehouse
 - 1) Task #1 – Premobilization
 - 2) Task #2 - Mobilization
 - 3) Task #3 - Component 20D
 - 4) Task #4 - Building 77
 - 5) Task #5 - Building 79
 - 6) Task #6 - Building 82A
 - 7) Task #7 - Demobilization
- 1.4.11 BFDDM – D&D Subcontract – Miscellaneous Structures
 - 1) Task #1 - Component 5F (Plant 6 Covered Storage Pad)
 - 2) Task #2 - Component 12E (Maintenance Storage Shed)
 - 3) Task #3 - Component 12F (Maintenance Storage Shed)
 - 4) Task #4 - Building 12G (Restored Area Maintenance)
 - 5) Task #5 – Component 16B (Electrical Substation)
 - 6) Task #6 - Component 16C (Electrical Panels and Transformer)
 - 7) Task #7 – Component 16F (Trailer Substation #1)
 - 8) Task #8 – Component 16G (Trailer Substation #2)
 - 9) Task #9 – Component 20E (Well House #1)
 - 10) Task #10 - Component 20F (Well House #2)
 - 11) Task #11 - Component 20G (Well House #3)
 - 12) Task #12 – Component 22B (Storm Sewer Lift Station)
 - 13) Task #13 – Component 22D (Scale House and Weigh Scale)
 - 14) Task #14 – Component 23 (Meteorological Tower)
 - 15) Task #15 – Component 25C (Sewer Lift Station Building)
 - 16) Task #16 – Component 26C (Main Electrical Substation Riser/Strainer House)
 - 17) Task #17 – Building 28E (Guard Post at OSDF South Entrance)
 - 18) Task #18 – Building 28G (Guard Post NW of Building 45)
 - 19) Task #19 – Building 28H (Guard Post South of K-65 Area)
 - 20) Task #20 – Building 28J (Security Checkpoint – South Access Road)
 - 21) Task #21 – Building 28K (Security Checkpoint – East Parking Lot)
 - 22) Task #22 – Building 28L (Guard Post – N. Construction Access Road)
 - 23) Task #23 – Building 28M (Guard Post on “F” Street)
 - 24) Task #24 – Building 30D (Sampling Line Processing)
 - 25) Task #25 – Building 50 (Maintenance Storage Building)
 - 26) Task #26 – Building 52A (RTRAK Building)
 - 27) Task #27 – Building 52B (ASTD SCEP Building)

- 28) Task #28 – Building 60 (Quonset Hut #1)
- 29) Task #29 – Building 61 (Quonset Hut #2)
- 30) Task #30 – Building 62 (Quonset Hut #3)
- 31) Task #31 – Building 68 (Pilot Plant Warehouse)
- 32) Task #32 – Building 93A (Southwest Boiler House)
- 33) Task #33 – Component G-008 (Pipe Bridges)
- 34) Task #34 – Building TS-08 (Environmental Monitoring Equipment Storage)
- 35) Task #35 – Trailer T1 (FF)
- 36) Task #36 – Trailer T2 (Rad Safety)
- 37) Task #37 – Trailer T3 (Wise Construction)
- 38) Task #38 – Trailer T4 (Multimedia Visual Storage)
- 39) Task #39 – Trailer T5 (FF Construction)
- 40) Task #40 – Trailer T6 (Restrooms)
- 41) Task #41 – Trailer T7 (FF)
- 42) Task #42 – Trailer T8 (Wise Construction)
- 43) Task #43 – Trailer 12 (CRU4-DLS)
- 44) Task #44 – Trailer T17 (FF)
- 45) Task #45 – Trailer T18 (Break Trailer)
- 46) Task #46 – Trailer T19 (Rad Safety)
- 47) Task #47 – Trailer T23 (10 Plex)
- 48) Task #48 – Trailer T24 (7 Plex – North)
- 49) Task #49 – Trailer T25 (7 Plex – South)
- 50) Task #50 – Trailer T26 (Waste Management)
- 51) Task #51 – Trailer T29 (Computer)
- 52) Task #52 – Trailer T30 (Computer)
- 53) Task #53 – Trailer T33 (Shipping Office)
- 54) Task #54 – Trailer T34 (FF)
- 55) Task #55 – Trailer T35 (FF)
- 56) Task #56 – Trailer T36 (Heavy Equipment Operators)
- 57) Task #57 – Trailer T40 (Thorium Overpack)
- 58) Task #58 – Trailer T41 (Waste Certification – QA)
- 59) Task #59 – Trailer T42 (Respirator Washing Facility)
- 60) Task #60 – Trailer T43 (Restoration)
- 61) Task #61 – Trailer T44 (FF Maintenance)
- 62) Task #62 – Trailer T45 (Environmental Monitoring)
- 63) Task #63 – Trailer T46 (Environmental Monitoring)
- 64) Task #64 – Trailer T49 (Bio-Assay Semi-Trailer)
- 65) Task #65 – Trailer T40 (Rad Safety)
- 66) Task #66 – Trailer T57 (Rad Safety)
- 67) Task #67 – Trailer T58 (Construction Office)
- 68) Task #68 – Trailer T59 (FF Waste Management)
- 69) Task #69 – Trailer T60 (Environmental Monitoring)
- 70) Task #70 – Trailer T61 (Startup Group)
- 71) Task #71 – Trailer T62 (Startup Group)
- 72) Task #72 – Trailer T65 (Plant 1 Pad MC&A Office)

- 73) Task #73 – Trailer T66 (RIMIA Tri-Plex)
- 74) Task #74 – Trailer T67 (Rad. Tech.)
- 75) Task #75 – Trailer T68 (CRU1 Office)
- 76) Task #76 – Trailer T69 (Control Point - RIMIA)
- 77) Task #77 – Trailer T71 (Safe Shutdown)
- 78) Task #78 – Trailer T72 (Safe Shutdown)
- 79) Task #79 – Trailer T74 (ARASA Changeout Facility)
- 80) Task #80 – Trailer T75 (Multimedia Services)
- 81) Task #81 – Trailer T82 (Capital Project)
- 82) Task #82 – Trailer T83 (Capital Project)
- 83) Task #83 – Trailer T84 (Capital Project)
- 84) Task #84 – Trailer T85 (Capital Project)
- 85) Task #85 – Trailer T86 (Capital Project)
- 86) Task #86 – Trailer T87 (Capital Project)
- 87) Task #87 – Trailer T89 (WPA Men's Changeout)
- 88) Task #88 – Trailer T90 (WPA Women's Changeout)
- 89) Task #89 – Trailer T91 (WPA Men's Changeout)
- 90) Task #90 – Trailer T92 (WPA Breakroom)
- 91) Task #91 – Trailer T93 (Radiation Control Unit Quad)
- 92) Task #92 – Trailer T94 (Radiation Control Unit Quad)
- 93) Task #93 – Trailer T95 (Radiation Control Unit Quad)
- 94) Task #94 – Trailer T96 (Radiation Control)
- 95) Task #95 – Trailer T97 (FF Office – CRU4)
- 96) Task #96 – Trailer T98 (OSDF)
- 97) Task #97 – Trailer T100 (FF Office)
- 98) Task #98 – Trailer T103 (Storage)
- 99) Task #99 – Trailer T108 (IAWWTF)
- 100) Task #100 – Trailer T109 (IAWWTF)
- 101) Task #101 – Trailer T117 (CRU4 Construction Support Office)
- 102) Task #102 – Trailer T118 (CRU4 Support Office)
- 103) Task #103 – Trailer T119 (Restrooms)
- 104) Task #104 – Trailer T121 (FF Office)
- 105) Task #105 – Trailer T122 (Storage)
- 106) Task #106 – Trailer T127 (OEPA – Part of T68)
- 107) Task #107 – Trailer T128 (Mixed Waste)
- 108) Task #108 – Trailer T129 (OEPA – Part of T68)
- 109) Task #109 – Trailer T130 (Breakroom)
- 110) Task #110 – Trailer T131 (Breakroom)
- 111) Task #111 – Trailer T132 (Kelchner Office)
- 112) Task #112 – Trailer T135 (Boiler Maintenance)
- 113) Task #113 – Trailer T138 (Southern Waste Unit Site Prep. Group)
- 114) Task #114 – Trailer T139 (Southern Waste Unit Site Prep. Group)
- 115) Task #115 – Trailer T141 (Maintenance Storage)
- 116) Task #116 – Trailer T142 (Maintenance Storage)

- 117) Task #117 – Trailer T164 (FF Training)
- 118) Task #118 – Trailer T165 (FF Training)
- 119) Task #119 – Trailer T166 (Industrial Relations)
- 120) Task #120 – Trailer T167 (Industrial Relations)
- 121) Task #121 – Trailer T168 (ARASA Contractor)
- 122) Task #122 – Trailer T169 (ARASA Contractor)
- 123) Task #123 – Trailer T170 (ARASA Contractor)
- 124) Task #124 – Trailer T171 (ARASA Contractor)
- 125) Task #125 – Trailer T172 (FCNDP)
- 126) Task #126 – Trailer T173 (FCNDP)
- 127) Task #127 – Trailer T173 (FCNDP)
- 128) Task #128 – Trailer T175 (FCNDP)
- 129) Task #129 – Trailer T176 (FCNDP)
- 130) Task #130 – Trailer T177 (FCNDP)
- 131) Task #131 – Trailer T178 (FCNDP)
- 132) Task #132 – Trailer T179 (FCNDP)
- 133) Task #133 – Trailer T181 (FF Office)
- 134) Task #134 – Trailer T182 (FF Office)
- 135) Task #135 – Trailer T183 (FF Office)
- 136) Task #136 – Trailer T186 (OSDF Office Trailer)
- 137) Task #137 – Trailer T191 (Breakroom/Cooldown)
- 138) Task #138 – Trailer T301 (IT Corp.)
- 139) Task #139 – Trailer T305 (Environmental Monitoring)
- 140) Task #140 – Trailer T306 (Environmental Monitoring)
- 141) Task #141 – Trailer T312 (Cell 1 Personal Cool Down)
- 142) Task #142 – Trailer T313 (ARASA Admin. Office “A”)
- 143) Task #143 – Trailer T314 (ARASA Admin. Office “B”)
- 144) Task #144 – Trailer T315 (ARASA Laboratory Office)
- 145) Task #145 – Trailer T316 (ARASA Laboratory “A”)
- 146) Task #146 – Trailer T317 (ARASA Laboratory “B”)
- 147) Task #147 – Trailer T318 (ARASA MHB/RCLO Pow. Mod. Bldg.)
- 148) Task #148 – Trailer T319 (ARASA Breakroom)
- 149) Task #149 – Trailer T320 (ARASA Laundry/Resp. Wash Facility)
- 150) Task #150 – Trailer T321 (ARASA MHB Rad. Cont. Trailer)
- 151) Task #151 – Trailer T322 (ARASA Supervisor’s Office)
- 152) Task #152 – Trailer T323 (ARASA Control Room)
- 153) Task #153 – Trailer T325 (ARASA GCS/WTS Pow. Mod. Bldg.)
- 154) Task #154 – Trailer T326 (ARASA Cont. Emissions Mon. Tr.)
- 155) Task #155 – Trailer T327 (Weigh Scale Ticket Office)
- 156) Task #156 – Trailer T330 (Doffing Trailer)
- 157) Task #157 – Trailer T502 (IT Corp. ARASA)
- 158) Task #158 – Trailer T505 (Facilities Shutdown Break Trailer)
- 159) Task #159 – Trailer T506 (Office)

- 160) Task #160 – Trailer T512 (Break – M. Ravenscraft)
- 161) Task #161 – Trailer T513 (Construction Coordinators)
- 162) Task #162 – Trailer T514 (Construction – Conference Room)
- 163) Task #163 – Trailer T520 (S&W Office)
- 164) Task #164 – Trailer T529 (Storage)
- 165) Task #165 – Trailer T540 (Triplex – Porter Breakroom)
- 166) Task #166 – Trailer T603 (Storage – Semi-Trailer)
- 167) Task #167 – Trailer T604 (Maintenance Storage Semi Trailer)
- 168) Task #168 – Trailer T608 (Break Trailer – Waste Management)
- 169) Task #169 – Building 24C – Locomotive Engine House/Repair and Truck Washing Facility
- 170) Task #170 – Railroad Track
- 1.4.12 BFDDN – D&D Subcontract – Building 64/65
 - 1) Task #1 – Premobilization
 - 2) Task #2 – Mobilization
 - 3) Task #3 – Building 64 (Thorium Warehouse)
 - 4) Task #4 – Building 65 (Old Plant 5 Warehouse)
 - 5) Task #5 – Demobilization
- 1.4.13 BFDD1 – D&D Subcontract – Plant 1, Phase II
 - 1) Task #1 – Premobilization
 - 2) Task #2 – Mobilization
 - 3) Task #3 – Building 1B
 - 4) Task #4 – Component 20A
 - 5) Task #5 – Building 30A
 - 6) Task #6 – Building 56A
 - 7) Task #7 – Building 71
 - 8) Task #8 – Components TS-4, TS-5, and TS-6
 - 9) Task #9 – Component 16N
- 1.4.14 BFDD5 – D&D Subcontract – Plant 5
 - 1) Task #1 – Premobilization
 - 2) Task #2 – Mobilization
 - 3) Task #3 – Building 5A
 - 4) Task #4 – Component 5D
 - 5) Task #5 – Demobilization
- 1.4.15 BFDD6 – D&D Subcontract – Plant 6
 - 1) Task #1 – Premobilization
 - 2) Task #2 – Mobilization
 - 3) Task #3 – Building 6A
 - 4) Task #4 – Building 6B
 - 5) Task #5 – Building 6C
 - 6) Task #6 – Building 6D
 - 7) Task #7 – Building 6E
 - 8) Task #8 – Building 6F
 - 9) Task #9 – Building 6G
 - 10) Task #10 – Demobilization

- 1.5 Project Plan/Technical Scope and Quantification
 - 1.5.1 BFDD2 – D&D Subcontract – Plant 2
 - 1) Task #1 – Premobilization
 - 1.1) Plan/Scope - Premobilization
 - 1.2) Quantification – Premobilization
 - 2) Task #2 – Mobilization
 - 2.1) Plan/Scope - Mobilization
 - 2.2) Quantification - Mobilization
 - 3) Task #3 – Building 2A
 - 3.1) Plan/Scope - Building 2A
 - 3.2) Quantification - Building 2A
 - 4) Task #4 - Building 2D
 - 4.1) Plan/Scope - Building 2D
 - 4.2) Quantification - Building 2D
 - 5) Task #5 - Component 2F
 - 5.1) Plan/Scope - Component 2F
 - 5.2) Quantification - Component 2F
 - 6) Task #6 – Component 2H
 - 6.1) Plan/Scope - Component 2H
 - 6.2) Quantification – Component 2H
 - 7) Task #7 – Demobilization
 - 7.1) Plan/Scope - Demobilization
 - 7.2) Quantification – Demobilization
 - 1.5.2 BFDD3 – D&D Subcontract – Plant 3
 - 1) Task #1 – Premobilization
 - 1.1) Plan/Scope - Premobilization
 - 1.2) Quantification – Premobilization
 - 2) Task #2 - Mobilization
 - 2.1) Plan/Scope - Mobilization
 - 2.2) Quantification – Mobilization
 - 3) Task #3 - Building 3B
 - 3.1) Plan/Scope - Building 3B
 - 3.2) Quantification – Building 3B
 - 4) Task #4 – Building 3C
 - 4.1) Plan/Scope - Building 3C
 - 4.2) Quantification – Building 3C
 - 5) Task #5 – Component 3D
 - 5.1) Plan/Scope – Component 3D
 - 5.2) Quantification – Component 3D
 - 6) Task #6 – Building 3E
 - 6.1) Plan/Scope – Component 3E
 - 6.2) Quantification – Component 3E
 - 7) Task #7 – Component 3J
 - 7.1) Plan/Scope – Component 3J
 - 7.2) Quantification – Component 3J
 - 8) Task #8 – Component 3K

- 8.1) Plan/Scope – Component 3K
- 8.2) Quantification – Component 3K
- 9) Task #9 – Building 39A
 - 9.1) Plan/Scope – Building 39A
 - 9.2) Quantification – Building 39A
- 10) Task #10 – Component 22E
 - 10.1) Plan/Scope – Component 22E
 - 10.2) Quantification – Component 22E
- 11) Task #11 – Demobilization
 - 11.1) Plan/Scope – Demobilization
 - 11.2) Quantification – Demobilization
- 1.5.3 BFDDS – D&D Subcontract – General Sump
 - 1) Task #1 - Premobilization
 - 1.1) Plan/Scope - Premobilization
 - 1.2) Quantification – Premobilization
 - 2) Task #2 - Mobilization
 - 2.1) Plan/Scope - Mobilization
 - 2.2) Quantification – Mobilization
 - 3) Task #3 - Building 2B
 - 3.1) Plan/Scope - Building 2B
 - 3.2) Quantification – Building 2B
 - 4) Task #4 – Building 2C
 - 4.1) Plan/Scope - Building 2C
 - 4.2) Quantification – Building 2C
 - 5) Task #5 – Component 3H
 - 5.1) Plan/Scope – Component 3H
 - 5.2) Quantification – Component 3H
 - 6) Task #6 – Building 18B
 - 6.1) Plan/Scope – Component 18B
 - 6.2) Quantification – Component 18B
 - 7) Task #7 – Component 18D
 - 7.1) Plan/Scope – Component 18D
 - 7.2) Quantification – Component 18D
 - 8) Task #8 – Component 18H
 - 8.1) Plan/Scope – Component 18H
 - 8.2) Quantification – Component 18H
 - 9) Task #9 – Building 3A
 - 9.1) Plan/Scope – Building 3A
 - 9.2) Quantification – Building 3A
 - 10) Task #10 – Building 3L
 - 10.1) Plan/Scope – Building 3L
 - 10.2) Quantification – Building 3L
 - 11) Task #11 – Miscellaneous Pipe and Pipe Racks
 - 11.1) Plan/Scope – Building 3L
 - 11.2) Quantification – Building 3L
 - 12) Task #12 – Demobilization

- 12.1) Plan/Scope – Demobilization
- 12.2) Quantification – Demobilization
- 1.5.4 BFDD8 – D&D Subcontract – Plant 8
 - 1) Task #1 - Premobilization
 - 1.1) Plan/Scope - Premobilization
 - 1.2) Quantification – Premobilization
 - 2) Task #2 - Mobilization
 - 2.1) Plan/Scope - Mobilization
 - 2.2) Quantification – Mobilization
 - 3) Task #3 - Building 8A
 - 3.1) Plan/Scope - Building 8A
 - 3.2) Quantification – Building 8A
 - 4) Task #4 – Building 8B
 - 4.1) Plan/Scope - Building 8B
 - 4.2) Quantification – Building 8B
 - 5) Task #5 – Building 8C
 - 5.1) Plan/Scope – Building 8C
 - 5.2) Quantification – Building 8C
 - 6) Task #6 – Building 8D
 - 6.1) Plan/Scope – Building 8D
 - 6.2) Quantification – Building 8D
 - 7) Task #7 – Building 8E
 - 7.1) Plan/Scope – Building 8E
 - 7.2) Quantification – Building 8E
 - 8) Task #8 – Building 8G
 - 8.1) Plan/Scope – Building 8G
 - 8.2) Quantification – Building 8G
 - 9) Task #9 – Building 8H
 - 9.1) Plan/Scope – Building 8H
 - 9.2) Quantification – Building 8H
 - 10) Task #10 – Demobilization
 - 10.1) Plan/Scope – Demobilization
 - 10.2) Quantification – Demobilization
- 1.5.5 GFDDH – D&D Subcontract – Health and Safety Building
 - 1) Task #1 - Premobilization
 - 1.1) Plan/Scope - Premobilization
 - 1.2) Quantification – Premobilization
 - 2) Task #2 - Mobilization
 - 2.1) Plan/Scope - Mobilization
 - 2.2) Quantification – Mobilization
 - 3) Task #3 – Building 53A
 - 3.1) Plan/Scope - Building 53A
 - 3.2) Quantification – Building 53A
 - 4) Task #4 – Demobilization
 - 4.1) Plan/Scope - Demobilization
 - 4.2) Quantification – Demobilization

1.5.6 BFDDQ – D&D Subcontract – Liquid Storage

- 1) Task #1 – Premobilization
 - 1.1) Plan/Scope – Premobilization
 - 1.2) Quantification – Premobilization
- 2) Task #2 – Mobilization
 - 2.1) Plan/Scope - Mobilization
 - 2.2) Quantification – Mobilization
- 3) Task #3 – Building 26A
 - 3.1) Plan/Scope – Building 26A
 - 3.2) Quantification – Building 26A
- 4) Task #4 – Component 26B
 - 4.1) Plan/Scope – Component 26B
 - 4.2) Quantification – Component 26B
- 5) Task #5 – Building 28D
 - 5.1) Plan/Scope – Building 28D
 - 5.2) Quantification – Building 28D
- 6) Task #6 – Building 45A
 - 6.1) Plan/Scope - Building 45A
 - 6.2) Quantification – Building 45A
- 7) Task #7 – Building 80
 - 7.1) Plan/Scope – Building 80
 - 7.2) Quantification – Building 80
- 8) Task #8 – Demobilization
 - 8.1) Plan/Scope – Demobilization
 - 8.2) Quantification – Demobilization

1.5.7 BFDDP – D&D Subcontract – Pilot Plant

- 1) Task #1 - Premobilization
 - 1.1) Plan/Scope - Premobilization
 - 1.2) Quantification – Premobilization
- 2) Task #2 - Mobilization
 - 2.1) Plan/Scope - Mobilization
 - 2.2) Quantification – Mobilization
- 3) Task #3 – Building 13A
 - 3.1) Plan/Scope – Building 13A
 - 3.1) Quantification – Building 13A
- 4) Task #4 – Component 13B
 - 4.1) Plan/Scope – Component 13B
 - 4.2) Quantification – Component 13B
- 5) Task #5 – Building 13C
 - 5.1) Plan/Scope – Building 13C
 - 5.2) Quantification – Building 13C
- 6) Task #6 – Component 13D
 - 6.1) Plan/Scope – Component 13D
 - 6.2) Quantification – Component 13D
- 7) Task #7 – Building 37
 - 7.1) Plan/Scope – Building 37

- 7.2) Quantification – Building 37
- 8) Task #8 – Building 54A
 - 8.1) Plan/Scope – Building 54A
 - 8.2) Quantification – Building 54A
- 9) Task #9 – Building 54B
 - 9.1) Plan/Scope – Building 54B
 - 9.2) Quantification – Building 54B
- 10) Task #10 – Building 54C
 - 10.1) Plan/Scope – Building 54C
 - 10.2) Quantification – Building 54C
- 11) Task #11 – Demobilization
 - 11.1) Plan/Scope – Demobilization
 - 11.2) Quantification – Demobilization
- 1.5.8 BFDDDB – D&D Subcontract – Laboratory
 - 1) Task #1 – Premobilization
 - 1.1) Plan/Scope – Premobilization
 - 1.2) Quantification – Premobilization
 - 2) Task #2 – Mobilization
 - 2.1) Plan/Scope – Mobilization
 - 2.2) Quantification – Mobilization
 - 3) Task #3 – Building 15A
 - 3.1) Plan/Scope – Building 15A
 - 3.2) Quantification – Building 15A
 - 4) Task #4 – Building 15B
 - 4.1) Plan/Scope – Building 15B
 - 4.2) Quantification – Building 15B
 - 5) Task #5 – Building 15C
 - 5.1) Plan/Scope – Building 15C
 - 5.2) Quantification – Building 15C
 - 6) Task #6 – Demobilization
 - 6.1) Plan/Scope – Demobilization
 - 6.2) Quantification – Demobilization
- 1.5.9 BFDDA – D&D Subcontract – Administration (Includes Electrical Complex)
 - 1) Task #1 - Premobilization
 - 1.1) Plan/Scope – Premobilization
 - 1.2) Quantification – Premobilization
 - 2) Task #2 – Mobilization
 - 2.1) Plan/Scope – Mobilization
 - 2.2) Quantification – Mobilization
 - 3) Task #3 – Building 11
 - 3.1) Plan/Scope – Building 11
 - 3.2) Quantification – Building 11
 - 4) Task #4 – Building 14A
 - 4.1) Plan/Scope - Building 14A
 - 4.2) Quantification – Building 14A

- 5) Task #5 – Building 14B
 - 5.1) Plan/Scope - Building 14B
 - 5.2) Quantification – Building 14B
- 6) Task #6 – Component 20K
 - 6.1) Plan/Scope – Component 20K
 - 6.2) Quantification – Component 20K
- 7) Task #7 – Building 53B
 - 7.1) Plan/Scope – Building 53B
 - 7.2) Quantification – Building 53B
- 8) Task #8 – Building 46
 - 8.1) Plan/Scope - Building 46
 - 8.2) Quantification – Building 46
- 9) Task #9 – Building 31A
 - 9.1) Plan/Scope – Building 31A
 - 9.2) Quantification – Building 31A
- 10) Task #10 – Demobilization
 - 10.1) Plan/Scope – Demobilization
 - 10.2) Quantification – Demobilization
- 1.5.10 BFDDE – D&D Subcontract – East Warehouse
 - 1) Task #1 – Premobilization
 - 1.1) Plan/Scope – Premobilization
 - 1.2) Quantification – Premobilization
 - 2) Task #2 – Mobilization
 - 2.1) Plan/Scope – Mobilization
 - 2.2) Quantification – Mobilization
 - 3) Task #3 – Component 20D
 - 3.1) Plan/Scope – Component 20D
 - 3.2) Quantification – Component 20D
 - 4) Task #4 – Building 77
 - 4.1) Plan/Scope – Building 77
 - 4.2) Quantification – Building 77
 - 5) Task #5 – Building 79
 - 5.1) Plan/Scope – Building 79
 - 5.2) Quantification – Building 79
 - 6) Task #6 – Building 82A
 - 6.1) Plan/Scope – Building 82A
 - 6.2) Quantification – Building 82A
 - 7) Task #7 – Demobilization
 - 7.1) Plan/Scope – Demobilization
 - 7.2) Quantification – Demobilization
- 1.5.11 BFDDM – D&D Subcontract – Miscellaneous
 - 1.1) Plan/Scope - Miscellaneous
 - 1) Task #1 – Component 5F (Plant 5 Covered Storage Pad)
 - 2) Task #2 – Component 12E (Maintenance Storage Shed)
 - 3) Task #3 – Component 12F (Maintenance Storage Shed)

- 4) Task #4 – Building 12G (Restored Area Maintenance Building)
- 5) Task #5 – Component 16B (Electrical Substation)
- 6) Task #6 – Component 16C (Electrical Panels & Transformer)
- 7) Task #7 – Component 16F (Trailer Substation #1)
- 8) Task #8 – Component 16G (Trailer Substation #2)
- 9) Task #9 – Component 20E (Well House #1)
- 10) Task #10 – Component 20F (Well House #2)
- 11) Task #11 – Component 20G (Well House #3)
- 12) Task #12 – Component 22B (Storm Sewer Lift Station)
- 13) Task #13 – Component 22D (Scale House and Weigh Scale)
- 14) Task #14 – Component 23 (Meteorological Tower)
- 15) Task #15 – Component 25C (Sewer Lift Station Building)
- 16) Task #16 – Component 26C (Main Electrical Substation Riser/Strainer House)
- 17) Task #17 – Building 28E (Guard Post at OSDF South Entrance)
- 18) Task #18 – Building 28G (Guard Post NW of Building 45)
- 19) Task #19 – Building 28H (Guard Post South of K-65 Area)
- 20) Task #20 – Building 28J (Security Checkpoint – South Access Road)
- 21) Task #21 – Building 28K (Security Checkpoint – East Parking Lot)
- 22) Task #22 – Building 28L (Guard Post – N. Construction Access Road)
- 23) Task #23 – Building 28M (Guard Post on “F” Street)
- 24) Task #24 – Building 30D (Sampling Line Processing)
- 25) Task #25 – Building 50 (Maintenance Storage Building)
- 26) Task #26 – Building 52A (RTRAK Building)
- 27) Task #27 – Building 52B (ASTD SCEP Building)
- 28) Task #28 – Building 60 (Quonset Hut #1)
- 29) Task #29 – Building 61 (Quonset Hut #2)
- 30) Task #30 – Building 62 (Quonset Hut #3)
- 31) Task #31 – Building 68 (Pilot Plant Warehouse)
- 32) Task #32 – Building 93A (Southwest Boiler House)
- 33) Task #33 – Component G-008 (Pipe Bridges)
- 34) Task #34 – Building TS-08 (Environmental Monitoring Equipment Storage)
- 35) Task #35 – Trailer T1 (FF)
- 36) Task #36 – Trailer T2 (Rad Safety)

- 37) Task #37 – Trailer T3 (Wise Construction)
- 38) Task #38 – Trailer T4 (Multimedia Visual Storage)
- 39) Task #39 – Trailer T5 (FF Construction)
- 40) Task #40 – Trailer T6 (Restrooms)
- 41) Task #41 – Trailer T7 (FF)
- 42) Task #42 – Trailer T8 (Wise Construction)
- 43) Task #43 – Trailer T12 (CRU4-DLS)
- 44) Task #44 – Trailer T17 (FF)
- 45) Task #45 – Trailer T18 (Break Trailer)
- 46) Task #46 – Trailer T19 (Rad Safety)
- 47) Task #47 – Trailer T23 (10 Plex)
- 48) Task #48 – Trailer T24 (7 Plex – North)
- 49) Task #49 – Trailer T25 (7 Plex – South)
- 50) Task #50 – Trailer T26 (Waste Management)
- 51) Task #51 – Trailer T29 (Computer)
- 52) Task #52 – Trailer T30 (Computer)
- 53) Task #53 – Trailer T33 (Shipping Office)
- 54) Task #54 – Trailer T34 (FF)
- 55) Task #55 – Trailer T35 (FF)
- 56) Task #56 – Trailer T36 (Heavy Equipment Operators)
- 57) Task #57 – Trailer T40 (Thorium Overpack)
- 58) Task #58 – Trailer T41 (Waste Certification – QA)
- 59) Task #59 – Trailer T42 (Respirator Washing Facility)
- 60) Task #60 – Trailer T43 (Restoration)
- 61) Task #61 – Trailer T44 (FF Maintenance)
- 62) Task #62 – Trailer T45 (Environmental Monitoring)
- 63) Task #63 – Trailer T46 (Environmental Monitoring)
- 64) Task #64 – Trailer T49 (Bio-Assay Semi-Trailer)
- 65) Task #65 – Trailer T40 (Rad Safety)
- 66) Task #66 – Trailer T57 (Rad Safety)
- 67) Task #67 – Trailer T58 (Construction Office)
- 68) Task #68 – Trailer T59 (FF Waste Management)
- 69) Task #69 – Trailer T60 (Environmental Monitoring)
- 70) Task #70 – Trailer T61 (Startup Group)
- 71) Task #71 – Trailer T62 (Startup Group)
- 72) Task #72 – Trailer T65 (Plant 1 Pad MC&A Office)
- 73) Task #73 – Trailer T66 (RIMIA Tri-Plex)
- 74) Task #74 – Trailer T67 (Rad. Tech.)
- 75) Task #75 – Trailer T68 (CRU1 Office)
- 76) Task #76 – Trailer T69 (Control Point - RIMIA)
- 77) Task #77 – Trailer T71 (Safe Shutdown)
- 78) Task #78 – Trailer T72 (Safe Shutdown)
- 79) Task #79 – Trailer T74 (ARASA Changeout Facility)
- 80) Task #80 – Trailer T75 (Multimedia Services)
- 81) Task #81 – Trailer T82 (Capital Project)
- 82) Task #82 – Trailer T83 (Capital Project)

- 83) Task #83 – Trailer T84 (Capital Project)
- 84) Task #84 – Trailer T85 (Capital Project)
- 85) Task #85 – Trailer T86 (Capital Project)
- 86) Task #86 – Trailer T87 (Capital Project)
- 87) Task #87 – Trailer T89 (WPA Men's Changeout)
- 88) Task #88 – Trailer T90 (WPA Women's Changeout)
- 89) Task #89 – Trailer T91 (WPA Men's Changeout)
- 90) Task #90 – Trailer T92 (WPA Breakroom)
- 91) Task #91 – Trailer T93 (Radiation Control Unit Quad)
- 92) Task #92 – Trailer T94 (Radiation Control Unit Quad)
- 93) Task #93 – Trailer T95 (Radiation Control Unit Quad)
- 94) Task #94 – Trailer T96 (Radiation Control)
- 95) Task #95 – Trailer T97 (FF Office – CRU4)
- 96) Task #96 – Trailer T98 (OSDF)
- 97) Task #97 – Trailer T100 (FF Office)
- 98) Task #98 – Trailer T103 (Storage)
- 99) Task #99 – Trailer T108 (IAWWTF)
- 100) Task #100 – Trailer T109 (IAWWTF)
- 101) Task #101 – Trailer T117 (CRU4 Construction Support Office)
- 102) Task #102 – Trailer T118 (CRU4 Support Office)
- 103) Task #103 – Trailer T119 (Restrooms)
- 104) Task #104 – Trailer T121 (FF Office)
- 105) Task #105 – Trailer T122 (Storage)
- 106) Task #106 – Trailer T127 (OEPA – Part of T68)
- 107) Task #107 – Trailer T128 (Mixed Waste)
- 108) Task #108 – Trailer T129 (OEPA – Part of T68)
- 109) Task #109 – Trailer T130 (Breakroom)
- 110) Task #110 – Trailer T131 (Breakroom)
- 111) Task #111 – Trailer T132 (Kelchner Office)
- 112) Task #112 – Trailer T135 (Boiler Maintenance)
- 113) Task #113 – Trailer T138 (Southern Waste Unit Site Prep. Group)
- 114) Task #114 – Trailer T139 (Southern Waste Unit Site Prep. Group)
- 115) Task #115 – Trailer T141 (Maintenance Storage)
- 116) Task #116 – Trailer T142 (Maintenance Storage)
- 117) Task #117 – Trailer T164 (FF Training)
- 118) Task #118 – Trailer T165 (FF Training)
- 119) Task #119 – Trailer T166 (Industrial Relations)
- 120) Task #120 – Trailer T167 (Industrial Relations)
- 121) Task #121 – Trailer T168 (ARASA Contractor)
- 122) Task #122 – Trailer T169 (ARASA Contractor)
- 123) Task #123 – Trailer T170 (ARASA Contractor)
- 124) Task #124 – Trailer T171 (ARASA Contractor)
- 125) Task #125 – Trailer T172 (FCNDP)

- 126) Task #126 – Trailer T173 (FCNDP)
- 127) Task #127 – Trailer T173 (FCNDP)
- 128) Task #128 – Trailer T175 (FCNDP)
- 129) Task #129 – Trailer T176 (FCNDP)
- 130) Task #130 – Trailer T177 (FCNDP)
- 131) Task #131 – Trailer T178 (FCNDP)
- 132) Task #132 – Trailer T179 (FCNDP)
- 133) Task #133 – Trailer T181 (FF Office)
- 134) Task #134 – Trailer T182 (FF Office)
- 135) Task #135 – Trailer T183 (FF Office)
- 136) Task #136 – Trailer T186 (OSDF Office Trailer)
- 137) Task #137 – Trailer T191 (Breakroom/Cooldown)
- 138) Task #138 – Trailer T301 (IT Corp.)
- 139) Task #139 – Trailer T305 (Environmental Monitoring)
- 140) Task #140 – Trailer T306 (Environmental Monitoring)
- 141) Task #141 – Trailer T312 (Cell 1 Personal Cool Down)
- 142) Task #142 – Trailer T313 (ARASA Admin. Office "A")
- 143) Task #143 – Trailer T314 (ARASA Admin. Office "B")
- 144) Task #144 – Trailer T315 (ARASA Laboratory Office)
- 145) Task #145 – Trailer T316 (ARASA Laboratory "A")
- 146) Task #146 – Trailer T317 (ARASA Laboratory "B")
- 147) Task #147 – Trailer T318 (ARASA MHB/RCLO Pow. Mod. Bldg.)
- 148) Task #148 – Trailer T319 (ARASA Breakroom)
- 149) Task #149 – Trailer T320 (ARASA Laundry/Resp. Wash Facility)
- 150) Task #150 – Trailer T321 (ARASA MHB Rad. Cont. Trailer)
- 151) Task #151 – Trailer T322 (ARASA Supervisor's Office)
- 152) Task #152 – Trailer T323 (ARASA Control Room)
- 153) Task #153 – Trailer T325 (ARASA GCS/WTS Pow. Mod. Bldg.)
- 154) Task #154 – Trailer T326 (ARASA Cont. Emissions Mon. Tr.)
- 155) Task #155 – Trailer T327 (Weigh Scale Ticket Office)
- 156) Task #156 – Trailer T330 (Doffing Trailer)
- 157) Task #157 – Trailer T502 (IT Corp. ARASA)
- 158) Task #158 – Trailer T505 (Facilities Shutdown Break Trailer)
- 159) Task #159 – Trailer T506 (Office)
- 160) Task #160 – Trailer T512 (Break – M. Ravenscraft)
- 161) Task #161 – Trailer T513 (Construction Coordinators)
- 162) Task #162 – Trailer T514 (Construction – Conference Room)
- 163) Task #163 – Trailer T520 (S&W Office)
- 164) Task #164 – Trailer T529 (Storage)

- 165) Task #165 – Trailer T540 (Triplex – Porter Breakroom)
- 166) Task #166 – Trailer T603 (Storage – Semi-Trailer)
- 167) Task #167 – Trailer T604 (Maintenance Storage Semi Trailer)
- 168) Task #168 – Trailer T608 (Break Trailer – Waste Management)
- 169) Task #169 – Building 24C – Locomotive Engine House/Repair and Truck Washing Facility
- 170) Task #170 – Railroad Track
- 1.2) Quantification - Miscellaneous
- 1.5.12 BFDDN – D&D Subcontract – Building 64/65
 - 1) Task #1 - Premobilization – Building 64/65
 - 1.1) Plan/Scope - Premobilization
 - 1.2) Quantification – Premobilization
 - 2) Task #2 - Mobilization
 - 2.1) Plan/Scope - Mobilization
 - 2.2) Quantification – Mobilization
 - 3) Task #3 – Building 64 (Thorium Warehouse)
 - 3.1) Plan/Scope – Building 64 (Thorium Warehouse)
 - 3.2) Quantification - Building 64 (Thorium Warehouse)
 - 4) Task #4 – Building 65 (Old Plant 5 Warehouse)
 - 4.1) Plan/Scope - Building 65 (Old Plant 5 Warehouse)
 - 4.2) Quantification - Building 65 (Old Plant 5 Warehouse)
 - 5) Task #5 – Demobilization
 - 5.1) Plan/Scope – Demobilization
 - 5.2) Quantification – Demobilization
- 1.5.13 BFDD1 – D&D Subcontract – Plant 1, Phase II
 - 1) Task #1 – Premobilization
 - 1.1) Plan/Scope – Premobilization
 - 1.2) Quantification – Premobilization
 - 2) Task #2 – Mobilization
 - 2.1) Plan/Scope – Mobilization
 - 2.2) Quantification – Mobilization
 - 3) Task #3 – Building 1B
 - 3.1) Plan/Scope – Building 1B
 - 3.2) Quantification – Building 1B
 - 4) Task #4 – Building 20A
 - 4.1) Plan/Scope – Building 20A
 - 4.2) Quantification – Building 20A
 - 5) Task #5 - Building 30A
 - 5.1) Plan/Scope – Building 30A
 - 5.2) Quantification – Building 30A
 - 6) Task #6 – Building 56A
 - 6.1) Plan/Scope – Building 56A
 - 6.2) Quantification – Building 56A
 - 7) Task #7 – Building 71

- 7.1) Plan/Scope – Building 71
- 7.2) Quantification – Building 71
- 8) Task #8 - Component TS-04, TS-05, TS-06
 - 8.1) Plan/Scope – Component TS-04, TS-05, TS-06
 - 8.2) Quantification - Component TS-04, TS-05, TS-06
- 9) Task #9 – Component 16N
 - 9.1) Plan/Scope – Component 16N
 - 9.2) Quantification – Components 16N
- 10) Task #10 – Demobilization
 - 10.1) Plan/Scope - Demobilization
 - 10.2) Quantification – Demobilization
- 1.5.14 BFDD5 – D&D Subcontract – Plant 5
 - 1) Task #1 – Premobilization
 - 1.1) Plan/Scope – Premobilization
 - 1.2) Quantification – Premobilization
 - 2) Task #2 – Mobilization
 - 2.1) Plan/Scope – Mobilization
 - 2.2) Quantification – Mobilization
 - 3) Task #3 – Building 5A
 - 3.1) Plan/Scope – Building 5A
 - 3.2) Quantification – Building 5A
 - 4) Task #4 – Component 5D
 - 4.1) Plan/Scope – Component 5D
 - 4.2) Quantification – Component 5D
 - 5) Task #5 – Demobilization
 - 5.1) Plan/Scope – Demobilization
 - 5.2) Quantification – Demobilization
- 1.5.15 BFDD6 – D&D Subcontract – Plant 6
 - 1) Task #1 – Premobilization
 - 1.1) Plan/Scope – Premobilization
 - 1.2) Quantification – Premobilization
 - 2) Task #2 – Mobilization
 - 2.1) Plan/Scope – Mobilization
 - 2.2) Quantification – Mobilization
 - 3) Task #3 – Building 6A
 - 3.1) Plan/Scope – Building 6A
 - 3.2) Quantification – Building 6A
 - 4) Task #4 – Building 6B
 - 4.1) Plan/Scope – Building 6B
 - 4.2) Quantification – Building 6B
 - 5) Task #5 – Building 6C
 - 5.1) Plan/Scope – Building 6C
 - 5.2) Quantification – Building 6C
 - 6) Task #6 – Building 6D
 - 6.1) Plan/Scope – Building 6D
 - 6.2) Quantification – Building 6D

- 7) Task #7 – Building 6E
 - 7.1) Plan/Scope - Building 6E
 - 7.2) Quantification – Building 6E
- 8) Task #8 – Building 6F
 - 8.1) Plan/Scope – Building 6F
 - 8.2) Quantification – Building 6F
- 9) Task #9 – Building 6G
 - 9.1) Plan/Scope - Building 6G
 - 9.2) Quantification – Building 6G
- 10) Task #10 – Demobilization
 - 10.1) Plan/Scope – Demobilization
 - 10.2) Quantification – Demobilization

Section 4: BDFW – Off-site Debris Disposal D&D

1.0 Narrative

1.1 Overview

1.2 Assumptions/Exclusions

1.2.1 Assumptions

1.2.2 Exclusions

1.3 Drivers

1.4 Project Physical Description

1.5 Project Plan/Technical Scope and Quantification

1.5.1 Task #1 - BDFW1 – Administration Complex Off-Site Debris Disposal

1) Plan/Scope - Administration Complex Off-Site Debris

2) Quantification – Administration Complex Off-Site Debris

1.5.2 Task #2 – BDFW2 – Electrical Complex Off-Site Debris Disposal

1) Plan/Scope – Electrical Complex Off-Site Debris Disposal

2) Quantification - Electrical Complex Off-Site Debris Disposal

1.5.3 Task #3 – BDFW3 – General Sump Complex Off-Site Debris Disposal

1) Plan/Scope - General Sump Complex Off-Site Debris Disposal

2) Quantification - General Sump Complex Off-Site Debris Disposal

1.5.4 Task #4 – BDFW4 – Plant 1 Phase II Complex Off-Site Debris Disposal

1) Plan/Scope - Plant 1 Phase II Complex Off-Site Debris Disposal

2) Quantification - Plant 1 Phase II Complex Off-Site Debris Disposal

1.5.5 Task #5 – BDFW5 – Plant 2 Complex Off-Site Debris Disposal

1) Plan/Scope – Plant 2 Complex Off Site Debris Disposal

2) Quantification – Plant 2 Complex Off Site Debris Disposal

1.5.6 Task #6 – BDFW6 – Plant 3 Complex Off-Site Debris Disposal

1) Plan/Scope – Plant 3 Complex Off-Site Debris Disposal

2) Quantification – Plant 3 Complex Off-Site Debris Disposal

1.5.7 Task #7 – BDFW7 – Plant 8 Complex Off-Site Debris Disposal

1) Plan/Scope - Plant 8 Complex Off-Site Debris Disposal

2) Quantification - Plant 8 Complex Off-Site Debris Disposal

1.5.8 Task #8 – BDFW8 – Liquid Storage Complex Off-Site Debris Disposal

1) Plan/Scope – Liquid Storage Complex Off-Site Debris Disposal

2) Quantification - Liquid Storage Complex Off-Site Debris Disposal

1.5.9 Task #9 – BDFW9 – Laboratory Complex Off-Site Debris Disposal

1) Plan/Scope – Laboratory Complex Off-Site Debris Disposal

2) Quantification - Laboratory Complex Off-Site Debris Disposal

1.5.10 Task #10 – BDFWA – Pilot Plant Complex Off-Site Debris Disposal

1) Plan/Scope - Pilot Plant Complex Off-Site Debris Disposal

2) Quantification - Pilot Plant Complex Off-Site Debris Disposal

1.5.11 Task #11 – BDFWB – East Warehouse Complex Off-Site Debris
Disposal

- 1) Plan/Scope – East Warehouse Complex Off-Site Debris
Disposal
- 2) Quantification - East Warehouse Complex Off-Site Debris
Disposal

Section 1: CECP – OSDF Project Management

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.4 Project Physical Description
 - 1.4.1 CECP1 - OSDF Management and Oversight
 - 1.4.2 CECP2 - OSDF Engineering Staff
 - 1.4.3 CECP3 - OSDF Construction Management
- 2.0 Manpower Plans
 - 2.1 OSDF Project Management and Oversight
 - 2.2 OSDF Engineering Staff
 - 2.3 OSDF Construction Management
- 3.0 Estimate
- 4.0 Risk Plan

Section 2: CAEN – OSDF Engineering

1.0 Narrative

1.1 Overview

- 1.1.1 CAEN1 – OSDF Design
- 1.1.2 CAEN2-CAEN4 – Not Used
- 1.1.3 CAEN5 – OSDF CQC Services
- 1.1.4 CAEN6 – OSDF Title III Services
- 1.1.5 CAEN7 – OSDF Monitoring

1.2 Assumptions/Exclusions

- 1.2.1 Assumptions
- 1.2.2 Exclusions
- 1.2.3 Government-Furnished Equipment/Services

1.3 Drivers

1.4 Project Physical Description

1.5 Project Plan/Technical Scope and Quantification

1.5.1 CAEN1 - OSDF Design

1) Task #1 – OSDF CFC Package for Remaining Cell Liner and Final Cover Systems

1.1) Subtask #1 – Procurement

- 1.1)1 Plan/Scope – Procurement
- 1.1)2 Quantification – Procurement

1.2) Subtask #2 – Preparation of OSDF CFC Package

- 1.2)1 Plan/Scope – Preparation of OSDF CFC Package
- 1.2)2 Quantification – Preparation of OSDF CFC Package

2) Task #2 – Support for Procurement of OSDF Construction Subcontractor

- 2.1) Plan/Scope
- 2.2) Quantification

3) Task #3 – OSDF Infrastructure CFC Packages

3.1) Subtask #1 – Access Control Facility CFC Package

- 3.1)1 Plan/Scope
- 3.1)2 Quantification

3.2) Subtask #2 – Removal of Temporary and Interim Leachate Line CFC Package

- 3.2)1 Plan/Scope
- 3.2)2 Quantification

3.3) Subtask #3 – OSDF OMTA CFC Packages

- 3.3)1 Plan/Scope
- 3.3)2 Quantification

3.4) Subtask #4 – OSDF Construction Water Well CFC Package

- 3.4)1 Plan/Scope
- 3.4)2 Quantification

3.5) Subtask #5 – OSDF Air Monitoring Station CFC Package

- 3.5)1 Plan/Scope
- 3.5)2 Quantification

Section 2: CAEN – OSDF Engineering (Continued)

- 4) Task #4 – Other OSDF Activities in FY2001
 - 4.1) Subtask #1 – Provide Title III Services
 - 4.1)1 Plan/Scope
 - 4.1)2 Quantification
 - 4.2) Subtask #2 – Provide Support for Review of OSDF Monitoring Data
 - 4.2)1 Plan/Scope
 - 4.2)2 Quantification
- 1.5.2 CAEN2-CAEN4 – Not Used
- 1.5.3 CAEN5 – OSDF CQC Services
 - 1) Task #1 – Selection of CQC Subcontractor
 - 1.1) Plan/Scope
 - 1.2) Quantification
 - 2) Task #2 – CQC Services
 - 2.1) Subtask #1 – CQC Services for Borrow Area Development
 - 2.1)1 Plan/Scope
 - 2.1)2 Quantification
 - 2.2) Subtask #2 – CQC Services for OSDF Liners, Final Cover and Infrastructure Construction
 - 2.2)1 Plan/Scope
 - 2.2)2 Quantification
 - 2.3) Subtask #3 – CQC Services for Impacted Material Placement
 - 2.3)1 Plan/Scope
 - 2.3)2 Quantification
- 1.5.4 CAEN6 - OSDF Title III Services
 - 1) Task #1 – Selection of OSDF Title III Subcontractor
 - 1.1) Plan/Scope
 - 1.2) Quantification
 - 2) Task #2 – Title III Services
 - 2.1) Plan/Scope
 - 2.2) Quantification
- 1.5.5 CAEN7 - OSDF Monitoring and Data Management
 - 1) Plan/Scope
 - 2) Quantification
- 2.0 Schedule
- 3.0 Manpower Plans
 - 3.1 OSDF Design
 - 3.2 CQC Services
 - 3.3 OSDF Title III Services
 - 3.4 OSDF Monitoring and Data Management
- 4.0 Estimate
- 5.0 Risk Plan

Section 3: CBSP – OSDF Infrastructure Construction

1.0 Narrative

1.1 Overview

1.1.1 CBSP1 – OSDF Miscellaneous Infrastructure Projects

1.1.2 Enhanced Permanent LTS Design

1.1.3 Enhanced Permanent LTS Construction

1.2 Assumptions/Exclusions

1.2.1 Assumptions

1.2.2 Exclusions

1.2.3 Government-Furnished Equipment/Services

1.3 Drivers

1.4 Project Physical Description

1.5 Project Plan/Technical Scope and Quantification

1.5.1 CBSP1 - OSDF Miscellaneous Infrastructure Projects

1) Task #1 – Submittals and Procurement

1.1) Subtask #1 - Submittals

1.1)1 Plan/Scope - Submittals

1.1)2 Quantification – Submittals

1.2) Subtask #2 - Procurement

1.2)1 Plan/Scope – Procurement

1.2)2 Quantification – Procurement

2) Task #2 – Relocation of Access Control Facility

2.1) Plan/Scope

2.2) Quantification

3) Task #3 – Phase II Temporary Leachate Removal

3.1) Plan/Scope

3.2) Quantification

4) Task #4 – Equipment Wash Certification

4.1) Plan/Scope

4.2) Quantification

5) Task #5 – Relocate Existing Stockpiles

5.1) Plan/Scope

5.2) Quantification

6) Task #6 – Permanent Power for Air Monitors and Relocation of Air Monitors

7) Task #7 – OMTA Container Area Expansion

7.1) Plan/Scope

7.2) Quantification

8) Task #8 – Construction of New Laydown Area

8.1) Plan/Scope

8.2) Quantification

9) Task #9 – Removal of Temporary Leachate Line – Phase III

9.1) Plan/Scope

9.2) Quantification

10) Task #10 – Construction Water Well

Section 3: CBSP – OSDF Infrastructure Construction (Continued)

- 10.1) Plan/Scope
- 10.2) Quantification
- 11) Task #11 – Demolish Existing North Wheel Wash at Impacted Material Haul Road
 - 11.1) Plan/Scope
 - 11.2) Quantification
- 12) Task #12 – Remove Underground/Above-Ground Interim Leachate Line
 - 12.1) Plan/Scope
 - 12.2) Quantification
- 13) Task #13 – Demobilization – D&D of OSDF Infrastructure Facility
 - 13.1) Plan/Scope
 - 13.2) Quantification
- 14) Task #14 – Phase I Temporary Leachate Removal
 - 14.1) Plan/Scope
 - 14.2) Quantification
- 15) Task #15 – Closeout
 - 15.1) Plan/Scope
 - 15.2) Quantification
- 2.0 Schedule
- 3.0 Manpower Plans
 - 3.1 OSDF Miscellaneous Infrastructure Projects
- 4.0 Estimate
- 5.0 Risk Plan

Section 4: CCPL – OSDF Construction

1.0 Narrative

1.1 Overview

- 1.1.1 CCPL1 – OSDF Construction Matrixed Labor
- 1.1.2 CCPL2 – OSDF Borrow Area Development
- 1.1.3 CCPL3 – OSDF Placement
- 1.1.4 CCPL4 – OSDF Phase III Construction, Materials, Services
- 1.1.5 CCPLA – OSDF Cell #2 Cap
- 1.1.6 CCPLB – OSDF Cell #3 Cap
- 1.1.7 CCPLC – OSDF Cell #4 Liner
- 1.1.8 CCPLD – OSDF Cell #4 Cap
- 1.1.9 CCPLE – OSDF Cell #5 Liner
- 1.1.10 CCPLF – OSDF Cell #5 Cap
- 1.1.11 CCPLG – OSDF Cell #6 Liner
- 1.1.12 CCPLH – OSDF Cell #6 Cap
- 1.1.13 CCPLJ – OSDF Cell #7 Liner
- 1.1.14 CCPLK – OSDF Cell #7 Cap

1.2 Assumptions/Exclusions

- 1.2.1 Assumptions
 - 1.2.1.1 General Assumptions
 - 1.2.1.2 Specific Assumptions
- 1.2.2 Exclusions
- 1.2.3 Government-Furnished Equipment/Services

1.3 Drivers

1.4 Project Physical Description

1.5 Project Plan/Technical Scope and Quantification

- 1.5.1 CCPL1 - OSDF Construction Matrixed Labor
 - 1) Task #1 – Matrixed Labor
 - 1.1) Plan/Scope
 - 1.2) Quantification
- 1.5.2 CCPL2 - OSDF Borrow Area Development
 - 1) Task #1 – Submittals and Procurement
 - 1.1) Subtask #1 – Submittals
 - 1.1)1 Plan/Scope
 - 1.1)2 Quantification
 - 1.2) Subtask #2 – Procurement
 - 1.2)1 Plan/Scope
 - 1.2)2 Quantification
 - 2) Task #2 – Site Preparation
 - 2.1) Plan/Scope
 - 2.2) Quantification
 - 3) Task #3 – Excavate and Screen Clay Material
 - 3.1) Plan/Scope
 - 3.2) Quantification

Section 4: CCPL – OSDF Construction (Continued)

- 4) Task #4 – Excavate and Stockpile Contouring Layer, Vegetative Layer and Topsoil Layer
 - 4.1) Plan/Scope
 - 4.2) Quantification
- 5) Task #5 – Interim Restoration
 - 5.1) Plan/Scope
 - 5.2) Quantification
- 6) Task #6 – Closeout
 - 6.1) Plan/Scope
 - 6.2) Quantification
- 1.5.3 CCPL3 - OSDF Placement
 - 1) Task #1 - Submittals
 - 1.1) Plan/Scope
 - 1.2) Quantification
 - 2) Task #2 – Site Preparation
 - 2.1) Plan/Scope
 - 2.2) Quantification
 - 3) Task #3 – Receive Impacted Material at the OMTA
 - 3.1) Plan/Scope
 - 3.2) Quantification
 - 4) Task #4 – Removal of Impacted Portion of the OSDF Haul Road
 - 4.1) Plan/Scope
 - 4.2) Quantification
 - 5) Task #5 – Placement of the 12-Inch Protection Layer (Cell Liner)
 - 5.1) Plan/Scope
 - 5.2) Quantification
 - 6) Task #6 - Placement of 24 Inches of Select Impacted Material (Cell Liner)
 - 6.1) Plan/Scope
 - 6.2) Quantification
 - 7) Task #7 – Place of 36 Inches Select Impacted Material (Cell Cap)
 - 7.1) Plan/Scope
 - 7.2) Quantification
 - 8) Task #8 – Placement of Impacted Material
 - 8.1) Plan/Scope
 - 8.2) Quantification
 - 9) Task #9 – Closeout
 - 9.1) Plan/Scope
 - 9.2) Quantification
- 1.5.4 CCPL4 - OSDF Phase III Construction, Materials, Services
 - 1) Task #1 – Submittals and Procurement
 - 1.1) Subtask #1 – Submittals
 - 1.1)1 Plan/Scope
 - 1.1)2 Quantification

Section 4: CCPL – OSDF Construction (Continued)

- 1.2) Subtask #2 – Procurement
 - 1.2)1 Plan/Scope
 - 1.2)2 Quantification
- 2) Task #2 – OSDF Phase III Construction
 - 2.1) Plan/Scope
 - 2.2) Quantification
- 3) Task #3 – Application of ConCover 180 in Cell #2 and Cell #3
 - 3.1) Plan/Scope
 - 3.2) Quantification
- 4) Task #4 – FY01 Impacted Material Placement
 - 4.1) Plan/Scope
 - 4.2) Quantification
- 5) Task #5 – OMTA Expansion/Transite Transfer Area
 - 5.1) Plan/Scope
 - 5.2) Quantification
- 6) Task #6 – OMTA Operations/Bulk Debris
 - 6.1) Plan/Scope
 - 6.2) Quantification
- 1.5.5 CCPLA - OSDF Cell #2 Cap
 - 1) Task #1 – Submittals and Procurement
 - 1.1) Subtask #1 – Submittals
 - 1.1)1 Plan/Scope
 - 1.1)2 Quantification
 - 1.2) Subtask #2 – Procurement
 - 1.2)1 Plan/Scope
 - 1.2)2 Quantification
 - 2) Task #2 – Site Preparation
 - 2.1) Plan/Scope
 - 2.2) Quantification
 - 3) Task #3 – Contouring Layer
 - 3.1) Plan/Scope
 - 3.2) Quantification
 - 4) Task #4 – Clay Cap
 - 4.1) Plan/Scope
 - 4.2) Quantification
 - 5) Task #5 – Geosynthetic Cap
 - 5.1) Plan/Scope
 - 5.2) Quantification
 - 6) Task #6 – Drainage Layer
 - 6.1) Plan/Scope
 - 6.2) Quantification
 - 7) Task #7 – Biointrusion Barrier
 - 7.1) Plan/Scope
 - 7.2) Quantification

Section 4: CCPL – OSDF Construction (Continued)

- 8) Task #8 – Filter Layer
 - 8.1) Plan/Scope
 - 8.2) Quantification
- 9) Task #9 – Vegetative Layer
 - 9.1) Plan/Scope
 - 9.2) Quantification
- 10) Task #10 – Topsoil Layer
 - 10.1) Plan/Scope
 - 10.2) Quantification
- 11) Task #11 – Permanent Vegetation
 - 11.1) Plan/Scope
 - 11.2) Quantification
- 12) Task #12 – Closeout
 - 12.1) Plan/Scope
 - 12.2) Quantification
- 1.5.6 CCPLB - OSDF Cell #3 Cap
 - 1) Task #1 – Submittals and Procurement
 - 1.1) Subtask #1 – Submittals
 - 1.1)1 Plan/Scope
 - 1.1)2 Quantification
 - 1.2) Subtask #2 – Procurement
 - 1.2)1 Plan/Scope
 - 1.2)2 Quantification
 - 2) Task #2 – Site Preparation
 - 2.1) Plan/Scope
 - 2.2) Quantification
 - 3) Task #3 – Contouring Layer
 - 3.1) Plan/Scope
 - 3.2) Quantification
 - 4) Task #4 – Clay Cap
 - 4.1) Plan/Scope
 - 4.2) Quantification
 - 5) Task #5 – Geosynthetic Cap
 - 5.1) Plan/Scope
 - 5.2) Quantification
 - 6) Task #6 – Drainage Layer
 - 6.1) Plan/Scope
 - 6.2) Quantification
 - 7) Task #7 – Biointrusion Barrier
 - 7.1) Plan/Scope
 - 7.2) Quantification
 - 8) Task #8 – Filter Layer
 - 8.1) Plan/Scope
 - 8.2) Quantification

Section 4: CCPL – OSDF Construction (Continued)

- 9) Task #9 – Vegetative Layer
 - 9.1) Plan/Scope
 - 9.2) Quantification
- 10) Task #10 – Topsoil Layer
 - 10.1) Plan/Scope
 - 10.2) Quantification
- 11) Task #11 – Permanent Vegetation
 - 11.1) Plan/Scope
 - 11.2) Quantification
- 12) Task #12 – Closeout
 - 12.1) Plan/Scope
 - 12.2) Quantification
- 1.5.7 CCPLC - OSDF Cell #4 Liner
 - 1) Task #1 – Submittals and Procurement
 - 1.1) Subtask #1 – Submittals
 - 1.1)1 Plan/Scope
 - 1.1)2 Quantification
 - 1.2) Subtask #2 – Procurement
 - 1.2)1 Plan/Scope
 - 1.2)2 Quantification
 - 2) Task #2 – Site Preparation
 - 2.1) Plan/Scope
 - 2.2) Quantification
 - 3) Task #3 – Clay Liner
 - 3.1) Plan/Scope
 - 3.2) Quantification
 - 4) Task #4 – Primary and Secondary Geosynthetic Liners
 - 4.1) Plan/Scope
 - 4.2) Quantification
 - 5) Task #5 – Primary and Secondary Drainage Layers
 - 5.1) Plan/Scope
 - 5.2) Quantification
 - 6) Task #6 – Construction of Perimeter Clay Wedges and Access Ramp
 - 6.1) Plan/Scope
 - 6.2) Quantification
 - 7) Task #7 – Catchment Area
 - 7.1) Plan/Scope
 - 7.2) Quantification
 - 8) Task #8 – Video Inspection of HDPE Pipe
 - 8.1) Plan/Scope
 - 8.2) Quantification
 - 9) Task #9 – Horizontal Monitoring Wells (HMW) #4 and #5
 - 9.1) Plan/Scope
 - 9.2) Quantification

Section 11: G711 – Area 7 Soils Remediation

- 2.0 Schedule
- 3.0 Manpower Plans
 - 3.1 Area 7 Predesign
 - 3.2 Area 7 Title I/II Design
 - 3.3 Area 7 Title III (Includes Subcontractor Staff/Craft)
 - 3.4 Area 7 Site Preparation/Excavation
 - 3.5 Area 7 Excavation Control/Certification
 - 3.6 Area 7 Off-Site Waste Disposition
- 4.0 Estimate
- 5.0 Risk Plan

Section 12: G811 – Area 8 Soils Remediation

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.2.4 Applicable Requirements
 - 1.2.5 Applicable Technical Guidance
 - 1.2.6 Disposal, Treatment, Containers, Utilities
 - 1.3 Drivers
 - 1.3.1 External Events that Impact the Schedule
 - 1.4 Project Physical Description
 - 1.5 Project Plan/Technical Scope and Quantification
 - 1.5.1 G8117 – Area 8 Phase III North Certification
 - 1) Task # 1 – Precertification
 - 1.1) Plan/Scope
 - 1.2) Quantification
 - 2) Task # 2 – Certification
 - 2.1) Plan/Scope
 - 2.2) Quantification
- 2.0 Schedule
- 3.0 Manpower Plans
 - 3.1 Area 8 Phase III North Remediation Certification
- 4.0 Estimate
- 5.0 Risk Plan

Section 13: G911 – Area 9 Soils Remediation

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.3 Drivers
 - 1.4 Project Physical Description
 - 1.5 Project Plan/Technical Scope and Quantification
 - 1.5.1 G9116 - Area 9 Phase I Certification
 - 1) Task #1 – Certification
 - 1.1) Plan/Scope
 - 1.2) Quantification
 - 1.5.2 G9117 - Area 9 Phase II Certification
 - 1) Task #1 – Precertification
 - 1.1) Plan/Scope
 - 1.2) Quantification
 - 2) Task #2 – Certification
 - 2.1) Plan/Scope
 - 2.2) Quantification
- 2.0 Schedule
- 3.0 Manpower Plans
 - 3.1 Area 9 Phase I Certification
 - 3.2 Area 9 Phase II Certification
- 4.0 Estimate
- 5.0 Risk Plan

Section 14: GPR1 – Stream Corridors Remediation

1.0 Narrative

1.1 Overview

1.2 Assumptions/Exclusions

1.2.1 Assumptions

1.2.2 Exclusions

1.2.3 Government-Furnished Equipment/Services

1.2.4 Applicable Requirements

1.2.5 Applicable Technical Guidance

1.2.6 Disposal, Treatment, Containers, Utilities

1.3 Drivers

1.3.1 External Events that Impact the Schedule

1.4 Project Physical Description

1.5 Project Plan/Technical Scope and Quantification

1.5.1 GPR11 – Predesign Characterization

1) Task #1 – Prepare Project Specific Plans

1.1) Plan/Scope

1.2) Quantification

2) Task #2 – Field and Analytical Work

2.1) Plan/Scope

2.2) Quantification

3) Task #3 – Data Reduction and Interpretation

3.1) Plan/Scope

3.2) Quantification

1.5.2 GPR12 – Title I/II Design

1) Task #1 – Project Planning

1.1) Plan/Scope

1.2) Quantification

2) Task #2 – Title I Design

2.1) Plan/Scope

2.2) Quantification

3) Task #3 – Title II Design

3.1) Plan/Scope

3.2) Quantification

1.5.3 GPR13 – Title III Design

1) Task #1 – Excavation Support

1.1) Plan/Scope

1.2) Quantification

2) Task #2 – Prepare Final Documents

2.1) Plan/Scope

2.2) Quantification

1.5.4 GPR14 - Site Preparation/Excavation/Interim Restoration

1) Task #1 – Site Preparation

1.1) Plan/Scope

1.2) Quantification

Section 14: GPR1 – Stream Corridors Remediation

- 2) Task #2 – Excavation
 - 2.1) Plan/Scope
 - 2.2) Quantification
- 1.5.5 GPR17 - Excavation Monitoring/Certification
 - 1) Task #1 – Excavation Monitoring
 - 1.1) Plan/Scope
 - 1.2) Quantification
- 2.0 Schedule
- 3.0 Manpower Plans
 - 3.1 Stream Corridors Predesign
 - 3.2 Stream Corridors Title I/II Design
 - 3.3 Stream Corridors Title III (Includes Subcontractor Staff/Craft)
 - 3.4 Stream Corridors Site Preparation/Excavation
 - 3.5 Stream Corridors Excavation Control/Certification
- 4.0 Estimate
- 5.0 Risk Plan

Section 1: HPM1 – Project Management

1.0 Narrative

1.1 Overview

1.2 Assumptions/Exclusions

1.2.1 Assumptions

1.2.1.1 Project Management

1.2.1.2 Administration

1.2.1.3 Environmental Compliance

1.2.1.4 Project Controls

1.2.1.5 Public Relations

1.2.1.6 Readiness and Assessments

1.2.2 Exclusions

1.2.2.1 Project Management

1.2.2.2 Administration

1.2.2.3 Environmental Compliance

1.2.2.4 Project Controls

1.2.2.5 Public Relations

1.2.2.6 Readiness and Assessments

1.2.3 Government Furnished Equipment

1.3 Drivers

1.3.1 Project Management

1.3.2 Administration

1.3.3 Environmental Compliance

1.3.4 Project Controls

1.3.5 Public Relations

1.3.6 Readiness and Assessments

1.3.7 General

1.4 Project Plan/Technical Scope and Quantification

1.4.1 HPM1A - Project Management

1) Task #1 – Project Management

1)1 Plan/Scope – Project Management

1)2 Quantification – Project Management

2) Task #2 – Administration

1)1 Plan/Scope – Administration

1)2 Quantification - Administration

3) Task #3 - Environmental Compliance

1)1 Plan/Scope – Environmental Compliance

1)2 Quantification – Environmental Compliance

4) Task #4 - Project Controls

1)1 Plan/Scope – Project Controls

1)2 Quantification – Project Controls

5) Task #5 - Public Relations

1)1 Plan/Scope – Public Relations

1)2 Quantification – Public Relations

Section 1: HPM1 – Project Management

- 6) Task #6 – Readiness and Assessments
 - 1)1 Plan/Scope – Readiness and Assessments
 - 1)2 Quantification – Readiness and Assessments
- 2.0 Manpower Plans
 - 2.1 Project Management
- 3.0 Estimate

Section 2: HS3A – Silo 3

1.0 Narrative

1.1 Overview

1.2 Assumptions/Exclusions

1.2.1 Assumptions

1.2.2 Exclusions

1.2.3 Government-Furnished Equipment/Services

1.2.4 Submittals to DOE

1.2.5 Submittals to USEPA/OEPA

1.2.6 DOE Order 413.3

1.3 Drivers

1.3.1 HS3AA – Project Management

1.3.2 HS3AB – Design Documentation – Fluor Fernald

1.3.2a HS3AK – Conceptual Design – Fluor Fernald

1.3.2b HS3AL – Conceptual Design – Jacobs

1.3.2c HS3AM – Preliminary Design – Fluor Fernald

1.3.2d HS3AN – Preliminary Design – Jacobs

1.3.2e HS3AP – Final Design – Fluor Fernald

1.3.2f HS3AR – Final Design – Jacobs

1.3.2g HS3AS – Title III Support – Fluor Fernald

1.3.2h HS3AT – Title III Support – Jacobs

1.3.3 HS3AC – Construction Management

1.3.4 HS3AD – Subcontracts

1.3.5 HS3AE – Startup/Startup Review

1.3.6 HS3AF – Remedial Action

1.3.7 HS3AG – Shipping

1.3.8 HS3AH – Shutdown

1.4 Project Physical Description

1.4.1 HS3AA – Project Management

1.4.2 HS3AB – Design Documentation

1.4.2a HS3AK – Conceptual Design (Fluor Fernald)

HS3AL – Conceptual Design (Jacobs)

1.4.2b HS3AM – Preliminary Design (Fluor Fernald)

HS3AN – Preliminary Design (Jacobs)

1.4.2c HS3AP – Final Design (Fluor Fernald)

HS3AR – Final Design (Jacobs)

1.4.2d HS3AS – Title III Support (Fluor Fernald)

HS3AT – Title III Support (Jacobs)

1.4.3 HS3AC – Construction Management

1.4.4 HS3AD – Subcontracts

1.4.5 HS3AE – Startup/Startup Review

1.4.6 HS3AF – Remedial Action

1.4.7 HS3AG – Shipping

1.4.8 HS3AH – Shutdown

Section 2: HS3A – Silo 3

- 1.5 Project Plan/Technical Scope and Quantification
 - 1.5.1 HS3AA – Project Management
 - 1) Plan/Scope – Project Management
 - 1.1) Task #1 – Project Management
 - 1.2) Task #2 – Project Management Documentation
 - 1.2)1 Subtask #1 – Remedial Action Work Plan
 - 1.3) Task #3 – Project Closure
 - 1.3)1 Subtask #1 – Project Closure Report
 - 1.3)2 Subtask #2 – Archiving Project Documentation
 - 1.3)3 Subtask #3 – Project Closeout
 - 2) Quantification – Project Management
 - 1.5.2 HS3AB – Design Documentation
 - 1) Task #1 – Design Data Development
 - 1.1) Plan/Scope – Design Data Development
 - 1.1)1 Subtask #1 – Design Data Development Work Plan
 - 1.1)2 Subtask #2 – Design Data Development
 - 1.1)3 Subtask #3 – Design Data Development Test Report
 - 1.2) Quantification - Design Data Development
 - 2) Task #2 – Remedial Design Package
 - 2.1) Plan/Scope – Remedial Design Package
 - 2.1)1 Subtask #1 – Process Description
 - 2.1)2 Subtask #2 – Retrieval Technology Description
 - 2.1)3 Subtask #3 – Process Control Plan
 - 2.1)4 Subtask #4 – Sampling and Analysis Plan
 - 2.1)5 Subtask #5 – Environmental Control Plan
 - 2.1)6 Subtask #6- Transportation and Disposal
 - 2.1)7 Subtask #7 – Silo 3 Gross Decontamination Plan
 - 2.1)8 Subtask #8 – ARARs Compliance Strategy
 - 2.1)9 Subtask #9 – Contingency Plan
 - 2.1)10 Subtask #10 – Health and Safety Controls
 - 2.1)11 Subtask #11 – Environmental Monitoring Plan
 - 2.1)12 Subtask #12 – Process Flow Diagrams
 - 2.1)13 Subtask #13 – General Arrangement Drawings
 - 2.1)14 Subtask #14 – Heat and Material Balance
 - 2.2) Quantification - Remedial Design Package
 - 3) Task #3 – Preliminary Hazard Analysis Report
 - 3.1) Plan/Scope - Preliminary Hazard Analysis Report
 - 3.2) Quantification - Preliminary Hazard Analysis Report
 - 4) Task #4 – Health and Safety Plan/Health and Safety Requirements Matrix
 - 4.1) Plan/Scope - Health and Safety Plan/Health and Safety Requirements Matrix
 - 4.2) Quantification - Health and Safety Plan/Health and Safety Requirements Matrix

Section 2: HS3A – Silo 3

- 1.5.2a HS3AK – Conceptual Design (Fluor Fernald)
HS3AL – Conceptual Design (Jacobs)
 - 1) Task #1 – Conceptual Design
 - 1.1) Plan/Scope - Conceptual Design
 - 1.2) Quantification - Conceptual Design
- 1.5.2b HS3AM – Preliminary Design (Fluor Fernald)
HS3AN – Preliminary Design (Jacobs)
 - 1) Task #1 – Preliminary Design
 - 1.1) Plan/Scope - Preliminary Design
 - 1.2) Quantification - Preliminary Design
- 1.5.2c HS3AP – Final Design (Fluor Fernald)
HS3AR – Final Design (Jacobs)
 - 1) Task #1 – Final Design
 - 1.1) Plan/Scope - Final Design
 - 1.2) Quantification - Final Design
- 1.5.2d HS3AS – Title III Support (Fluor Fernald)
HS3AT – Title III Support (Jacobs)
 - 1) Task #1 – Title III Support
 - 1.1) Plan/Scope - Title III Engineering Support
 - 1.1)1 Subtask #1 – Computer Aided Drafting and Design
 - 1.1)2 Subtask #2 – Design Change Notices
 - 1.1)3 Subtask #3 – Interface with Equipment Vendors
 - 1.2) Quantification - Title III Engineering Support
- 1.5.3 HS3AC – Construction Management
 - 1) Task #1 – Equipment Procurement
 - 1.1) Plan/Scope - Equipment Procurement
 - 1.2) Quantification - Equipment Procurement
 - 2) Task #2 – Invitation for Bid Preparation and Award
 - 2.1) Plan/Scope - Invitation for Bid Preparation and Award
 - 2.2) Quantification - Invitation for Bid Preparation and Award
 - 3) Task #3 – Subcontract Management
 - 3.1) Plan/Scope - Subcontract Management
 - 3.1)1 Subtask #1 – Construction Safe Work Plans
 - 3.1)2 Subtask #2 – Safety and Health Oversight
 - 3.1)3 Subtask #3 – Field Quality Control Oversight
 - 3.1)4 Subtask #4 – Mock-up of Silo Entry
 - 3.2) Quantification - Subcontract Management
 - 4) Task #4 – Construction Start-up Support
 - 4.1) Plan/Scope - Construction Start-up Support
 - 4.2) Quantification - Construction Start-up Support
- 1.5.4 HS3AD – Subcontracts
 - 1) Plan/Scope – Subcontracts
 - 1.1) Task #1 – Civil Contractor Fieldwork
 - 1.2) Task #2 – Mechanical Contractor Fieldwork

Section 2: HS3A – Silo 3

- 1.3) Task #3 – Electrical Contractor Fieldwork
- 2) Quantification - Subcontracts
- 1.5.5 HS3AE – Startup/Startup Review
 - 1) Task #1 – Start-Up Management
 - 1.1) Plan/Scope - Start-Up Management
 - 1.2) Quantification - Start-Up Management
 - 2) Task #2 – Operating Procedures
 - 2.1) Plan/Scope - Operating Procedures
 - 2.2) Quantification - Operating Procedures
 - 3) Task #3 – Final Hazard Analysis Report
 - 3.1) Plan/Scope - Final Hazard Analysis Report
 - 3.2) Quantification - Final Hazard Analysis Report
 - 4) Task #4 – Maintenance Plan
 - 4.1) Plan/Scope - Maintenance Plan
 - 4.2) Quantification - Maintenance Plan
 - 5) Task #5 – Develop Pre-operations Training
 - 5.1) Plan/Scope - Develop Pre-operations Training
 - 5.2) Quantification - Develop Pre-operations Training
 - 6) Task # 6 – Conduct Training
 - 6.1) Plan/Scope – Conduct Training
 - 6.2) Quantification – Conduct Training
 - 7) Task #7 – Develop System Operability Testing Procedures
 - 7.1) Plan/Scope - Develop System Operability Testing Procedures
 - 7.2) Quantification - Develop System Operability Testing Procedures
 - 8) Task #8 – Conduct System Operability Tests
 - 8.1) Plan/Scope - Conduct System Operability Tests
 - 8.1)1 Subtask #1 – System Operability Tests
 - 8.1)2 Subtask #2 – System Operability Final Test Report
 - 8.2) Quantification - Conduct System Operability Tests
 - 9) Task #9 – Operational Readiness Review
 - 9.1) Plan/Scope - Operational Readiness Review
 - 9.1)1Subtask #1 – Fluor Fernald ORR
 - 9.1)2Subtask #2 – DOE ORR
 - 9.2) Quantification - Operational Readiness Review
- 1.5.6 HS3AF – Remediation Action
 - 1) Task #1 – Operations
 - 1.1) Plan/Scope – Operations
 - 1.1)1 Subtask #1 – Retrieval
 - 1.1)2 Subtask #2 – Treatment
 - 1.1)3 Subtask #3 – Packaging and Preparation for Shipment
 - 1.1)4 Subtask #4 – Facility Ownership
 - 1.1)5 Subtask #5 – Utilities
 - 1.2) Quantification - Operations

Section 2: HS3A – Silo 3

1.5.7 HS3AG – Shipping

- 1) Task #1 – Shipping
 - 1.1) Plan/Scope – Shipping
 - 1.1)1 Subtask #1 – Manifesting
 - 1.1)2 Subtask #2 – Rail Shipment
 - 1.2) Quantification – Shipping
- 2) Task #2 – Disposal
 - 2.1) Plan/Scope – Disposal
 - 2.1)1 Subtask #1 – Disposal of Treated Silo 3 Material
 - 2.1)2 Subtask #2 – Disposal of Secondary Waste
 - 2.2) Quantification - Disposal

1.5.8 HS3AH – Shutdown

- 1) Task #1 – Safe Shutdown Documentation
 - 1.1) Plan/Scope - Safe Shutdown Documentation
 - 1.2) Quantification - Safe Shutdown Documentation
- 2) Task #2 – Safe Shutdown
 - 2.1) Plan/Scope – Safe Shutdown
 - 2.1)1 Subtask #1 – Isolation of Utilities
 - 2.1)2 Subtask #2 – Establishment of Temporary Utilities
 - 2.1)3 Subtask #3 – Removal of Hold-up Material
 - 2.1)4 Subtask #4 – Gross Decontamination
 - 2.1)5 Subtask #5 – Treatment of Hold-Up Material
 - 2.1)6 Subtask #6 – Facility Shutdown
 - 2.2) Quantification – Safe Shutdown

2.0 Schedule

3.0 Manpower Plans

- 3.1 Project Management (Includes Subcontractor Staff/Craft)
- 3.2 Design Documentation – Fernald
- 3.3 Conceptual Design – Fernald
- 3.4 Preliminary Design – Fernald
- 3.5 Final Design – Fernald
- 3.6 Title III Support - Fernald
- 3.7 Construction Management
- 3.8 Startup/Startup Review
- 3.9 Remedial Action
- 3.10 Shutdown

4.0 Estimate

5.0 Risk Plan

Section 3: HSWR – AWR

1.0 Narrative

1.1 Overview

1.2 Assumptions

1.2.1 Assumptions

1.2.2 Exclusions

1.2.3 Government-Furnished Equipment/Services

1.3 Drivers

1.4 Project Physical Description

1.4.1 HWR1A – Due Diligence – Fluor Fernald

1.4.2 HWR1B – Due Diligence - JEG

1.4.3 HWR1C – RCS Construction

1.4.4 HWR1D – JEG Construction Support

1.4.5 HWR1E – Balance of Plant Construction

1.4.6 HWR1F – Construction Management

1.4.7 HWR1G – Engineering Support – Fluor Fernald

1.4.8 HWR1H – JEG Engineering Execution

1.4.9 HWR1J – Start-Up and Readiness

1.4.10 HWR1K – Operations

1.4.11 HWR1L – Safe Shutdown

1.4.12 HWR1M – Silos Project Maintenance Facility

1.4.13 HWR1P – Project Management

1.4.14 HSWRB – FWENC Contract Closeout

1.4.15 HSWRC - Rheology Studies

1.5 Project Plan/Technical Scope and Quantification

1.5.1 HWR1A – Due Diligence – Fluor Fernald

1) Plan/Scope – Project Oversight

1.1) Task #1 – RCS Due Diligence

1.2) Task #2 – BOP Due Diligence

1.3) Task #3 – EMMA™ Due Diligence

1.4) Task #4 – Execution Change Proposal

1.5) Task #5 – AWR Contract Settlement

2) Quantification – Due Diligence – Fluor Fernald

1.5.2 HWR1B – Due Diligence - JEG

1) Plan/Scope – Design Oversight

1.1) Task #1 – RCS Due Diligence

1.2) Task #2 – BOP Due Diligence

1.3) Task #3 - EMMA™ Due Diligence

2) Quantification – Due Diligence - JEG

1.5.3 HWR1C – RCS Construction

1) Plan/Scope – RCS Construction

2) Quantification – RCS Construction

1.5.4 HWR1D – JEG Construction Support

Section 3: HSWR – AWR

- 1) Plan/Scope – JEG Construction Support
- 2) Quantification – JEG Construction Support
- 1.5.5 HWR1E – BOP Construction
 - 1) Plan/Scope – BOP Construction
 - 2) Quantification – BOP Construction
- 1.5.6 HWR1F – Construction Management
 - 1) Plan/Scope – Construction Management
 - 1.1) Task #1 – Construction Design Support
 - 1.2) Task #2 – Construction Subcontracting
 - 2) Quantification – Construction Management
- 1.5.7 HWR1G – Engineering Support – Fluor Fernald
 - 1) Plan/Scope – Engineering Support – Fluor Fernald
 - 2) Quantification – Engineering Support – Fluor Fernald
- 1.5.8 HWR1H – JEG Engineering Execution
 - 1) Plan/Scope – JEG Engineering Execution
 - 2) Quantification – JEG Engineering Execution
- 1.5.9 HWR1J – Start-Up and Readiness
 - 1) Plan/Scope – Start-Up and Readiness
 - 1.1) Task #1 – Training
 - 1.2) Task #2 – Readiness Self-Assessment
 - 1.3) Task #3 – SOT
 - 1.4) Task #4 – Plans and Procedures
 - 1.5) Task #5 – Preventative Maintenance
 - 2) Quantification – Start-Up and Readiness
- 1.5.10 HWR1K – Operations
 - 1) Plan/Scope – Operations
 - 1.1) Task #1 – Operations
 - 1.1.1) Plan/Scope – Operations
 - 1.1.2) Quantification – Operations
 - 1.2) Task #2 – Berm Soil Handling
 - 1.2.1) Plan/Scope – Berm Soil Handling
 - 1.2.2) Quantification – Berm Soil Handling
- 1.5.11 HWR1L – Safe Shutdown
 - 1) Plan/Scope – Safe Shutdown
 - 2) Quantification – Safe Shutdown
- 1.5.12 HWR1M – Silos Project Maintenance Facility
 - 1) Plan/Scope – Silos Project Maintenance Facility
 - 1.1.1) Task #1 – Planning
 - 1.1.2) Task #2 – Equipment Removal
 - 1.1.3) Task #3 – Facility Upgrade
 - 2) Quantification – Silos Project Maintenance Facility
- 1.5.13 HWR1P – Project Management
 - 1) Plan/Scope – Project Management
 - 1.1.1) Task #1 – Project Oversight

Section 3: HSWR – AWR

- 1.1.3) Task #2 - Project Documentation
 - 2) Quantification – Project Management
- 1.5.14 HSWRB – FWENC Contract Closure
 - 1) Plan/Scope – FWENCE Contract Closure
 - 2) Quantification – FWENC Contract Closure
- 1.5.15 HSWRC – Rheology Studies
 - 1) Plan/Scope – Rheology Studies
 - 2) Quantification – FWENC Contract Closure
- 2.0 Schedule
- 3.0 Manpower Plans
 - 3.1 Construction Management
 - 3.2 Startup/Readiness Support
 - 3.3 Operation and Maintenance
 - 3.4 Safe Shutdown and Demob
 - 3.5 Rheology Studies
 - 3.6 Maintenance Facility
 - 3.7 AWR Transition (Due Diligence) - Fernald
 - 3.8 Engineering Support
 - 3.9 Project Management
- 4.0 Estimate
- 5.0 Risk Plan

Section 4: HS1A – Silos 1 and 2

1.0 Narrative

1.1 Overview

1.2 Assumptions/Exclusions

1.2.1 Contracting Strategy

1.2.2 Assumptions and Criteria

1.2.3 DOE Order 413.3

1.2.4 Submittals to DOE

1.2.5 Exclusions

1.2.6 Government Furnished Equipment

1.3 Drivers

1.4 Project Physical Description

1.4.1 HS1AA- Project Oversight

1.4.2 HS1AB - Design Data Development

1.4.3 Various – Engineering and Design [Conceptual Design (HS1AC – Fluor Fernald, HS1AE – Jacobs Engineering); Preliminary Design (HS1AV – Fluor Fernald, HS1AW – Jacobs Engineering); Final Design (HS1AX – Fluor Fernald, HS1AY – Jacobs Engineering); Engineering Support of Construction Startup, Operations, & D&D (HS1A1 – Fluor Fernald, HS1A2 – Jacobs Engineering); Container Design and Testing (Various); Safety Basis (Various); and Regulatory Packages (Various)]

1.4.4 HS1AD - Construction Management

1.4.5 HS1AF - Subcontracts – Miscellaneous

1.4.6 HS1AG - Electrical Subcontract

1.4.7 HS1AH - Mechanical Subcontract

1.4.8 HS1AJ - Civil Subcontract

1.4.9 HS1AK - Startup/Readiness Review

1.4.10 HS1AL - Operations and Maintenance

1.4.11 HS1AM - Waste Management

1.4.12 HS1AN - Facility Shutdown

1.4.13 HS1AP - D&D Support

1.4.14 HS1AR - D&D Contract

1.5 Project Plan/Technical Scope and Quantification

1.5.1 HS1AA - Project Oversight

1) Task # 1 - Project Management

1.1) Plan/Scope – Project Management

1.2) Quantification – Project Management

2) Task #2 - Project Documentation

2.1) Subtask #1 – Silos Project Execution Plan

2.1)1 Plan/Scope – Silos Project Execution Plan

2.1)2 Quantification – Silos Project Execution Plan

2.2) Subtask #2 - Training and Qualification Program

2.2)1 Plan/Scope - Training and Qualification Program

2.2)2 Quantification - Training and Qualification Program

2.3) Subtask #3 - Quality Assurance Job Specific Plan

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- 2.3)1 Plan/Scope - Quality Assurance Job Specific Plan
 - 2.3)2 Quantification - Quality Assurance Job Specific Plan
 - 2.4) Subtask #4 - Workforce Planning
 - 2.4)1 Plan/Scope - Workforce Planning
 - 2.4)2 Quantification - Workforce Planning
 - 2.5) Subtask #5 - Project Closure
 - 2.5)1 Plan/Scope – Project Closure
 - 2.5)2 Quantification – Project Closure
- 3) Task #3 – Division Project Management
 - 3.1) Subtask #1 – Project Management
 - 3.1)1 Plan/Scope – Project Management
 - 3.1)2 Quantification – Project Management
 - 3.2) Subtask #2 – Administration
 - 3.2)1 Plan/Scope – Project Management
 - 3.2)2 Quantification – Project Management
 - 3.3) Subtask #3 – Environmental Compliance
 - 3.3)1 Plan/Scope – Environmental Compliance
 - 3.3)2 Quantification – Environmental Compliance
 - 3.4) Subtask #4 – Project Controls
 - 3.4)1 Plan/Scope – Project Controls
 - 3.4)2 Quantification – Project Controls
 - 3.5) Subtask #5 – Public Relations
 - 3.5)1 Plan/Scope – Public Relations
 - 3.5)2 Quantification – Public Relations
 - 3.6) Subtask #6 – Readiness and Assessments
 - 3.6)1 Plan/Scope – Readiness and Assessments
 - 3.6)2 Quantification – Readiness and Assessments
 - 3.7) Subtask #7 – Other Direct Costs
 - 3.7)1 Plan/Scope – Other Direct Costs
 - 3.7)2 Quantification – Other Direct Costs
 - 3.8) Subtask #8 – Site Environmental, Safety, and Health Radiological Control
 - 3.8)1 Plan/Scope – Site Environmental, Safety, and Health Radiological Control
 - 3.8)2 Quantification – Site Environmental, Safety, and Health Radiological Control
- 1.5.2 HS1AB – Design Data Development
 - 1) Task #1 - Design Data Development Work Plan
 - 1.1) Plan/Scope - Design Data Development Work Plan
 - 1.2) Quantification - Design Data Development Work Plan
 - 2) Task #2 - Laboratory Work Package
 - 2.1) Plan/Scope - Laboratory Work Package
 - 2.2) Quantification - Laboratory Work Package
 - 3) Task #3 – Collect and Ship Silo Material

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- 3.1) Plan/Scope - Collect and Ship Silo Material
- 3.2) Quantification - Collect and Ship Silo Material
- 4) Task #4 – Design Data Development Programs
 - 4.1) Plan/Scope - Design Data Development Programs
 - 4.2) Quantification - Design Data Development Programs
- 5) Task #5 – Final Report
 - 5.1) Plan/Scope – Final Report
 - 5.2) Quantification – Final Report
- 1.5.3 HS1AC – Engineering and Design
 - 1) Task #1 – Engineering and Design
 - 1.1) Subtask #1 – Design Basis Package
 - 1.1)1 Plan/Scope – Design Basis Package
 - 1.1)2 Quantification – Design Basis Package
 - 1.2) Subtask #2 – Conceptual Design Package
 - 1.2)1 Plan/Scope - Conceptual Design Package
 - 1.2)2 Quantification - Conceptual Design Package
 - 1.3) Subtask #3 – Preliminary Design Package
 - 1.3)1 Plan/Scope - Preliminary Design Package
 - 1.3)2 Quantification - Preliminary Design Package
 - 1.4) Subtask #4 – Final Design Package
 - 1.4)1 Plan/Scope - Final Design Package
 - 1.4)2 Quantification - Final Design Package
 - 2) Task #2 – Engineering Support of Construction, Start-up, Operations and D&D
 - 2.1) Plan/Scope – Engineering Support of Construction, Start-up, Operations and D&D
 - 2.2) Quantification – Engineering Support of Construction, Start-up, Operations and D&D
 - 3) Task #3 – Container Design and Testing
 - 3.1) Subtask #1 – Container Analysis and Survey Report
 - 3.1)1 Plan/Scope - Container Analysis and Survey Report
 - 3.1)2 Quantification - Container Analysis and Survey Report
 - 3.2) Subtask #2 – Preliminary Container Design Package
 - 3.2)1 Plan/Scope - Container Design Package
 - 3.2)2 Quantification - Container Design Package
 - 3.3) Subtask #3 – Final Container Design Package
 - 3.3)1 Plan/Scope - Final Container Design Package
 - 3.3)2 Quantification - Final Container Design Package
 - 3.4) Subtask #4 – Container Test Plan
 - 3.4)1 Plan/Scope - Container Test Plan
 - 3.4)2 Quantification - Container Test Plan
 - 3.5) Subtask #5 – Prototype Container Fabrication and Testing
 - 3.5)1 Plan/Scope - Prototype Container Fabrication and Testing
 - 3.5)2 Quantification - Prototype Container Fabrication and

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Testing

- 3.6) Subtask #6 – Container Test Report
 - 3.6)1 Plan/Scope - Container Test Report
 - 3.6)2 Quantification - Container Test Report
- 4) Task #4 – Safety Basis
 - 4.1) Subtask #1 – Safety Basis Documentation Implementation Plan
 - 4.1)1 Plan/Scope - Safety Basis Documentation Implementation Plan
 - 4.1)2 Quantification - Safety Basis Documentation Implementation Plan
 - 4.2) Subtask #2 – Preliminary Safety Basis Document
 - 4.2)1 Plan/Scope - Preliminary Safety Basis Document
 - 4.2)2 Quantification – Preliminary Safety Basis Document
 - 4.3) Subtask #3 – Final Safety Basis Document
 - 4.3)1 Plan/Scope – Final Safety Basis Document
 - 4.3)2 Quantification - Final Safety Basis Document
 - 4.4) Subtask #4 – Preliminary Documented Safety Analysis
 - 4.4)1 Plan/Scope - Preliminary Documented Safety Analysis
 - 4.4)2 Quantification - Preliminary Documented Safety Analysis
 - 4.5) Subtask #5 – Documented Safety Analysis
 - 4.5)1 Plan/Scope – Documented Safety Analysis
 - 4.5)2 Quantification – Documented Safety Analysis
- 5) Task #5 – Regulatory Packages
 - 5.1) Subtask #1 – Revised Remedial Design Work Plan
 - 5.1)1 Plan/Scope - Revised Remedial Design Work Plan
 - 5.1)2 Quantification - Revised Remedial Design Work Plan
 - 5.2) Subtask #2 – Remedial Design Packages
 - 5.2)1 Plan/Scope - Remedial Design Packages
 - 5.2)2 Quantification - Remedial Design Packages
 - 5.3) Subtask #3 – Remedial Action Work Plan
 - 5.3)1 Plan/Scope – Remedial Action Work Plan
 - 5.3)2 Quantification – Remedial Action Work Plan
 - 5.4) Subtask #4 – Remedial Action Package
 - 5.4)1 Plan/Scope - Remedial Action Package
 - 5.4)2 Quantification - Remedial Action Package
 - 5.5) Subtask #5 – NTS Waste Disposal Evaluation
 - 5.5)1 Plan/Scope - NTS Waste Disposal Evaluation
 - 5.5)2 Quantification - NTS Waste Disposal Evaluation
 - 5.6) Subtask #6 – Transportation and Disposal Plan
 - 5.6)1 Plan/Scope - Transportation and Disposal Plan
 - 5.6)2 Quantification - Transportation and Disposal Plan
- 1.5.4 HS1AD – Construction Management
 - 1) Task #1 – Construction Design Support
 - 1.1) Plan/Scope - Construction Design Support

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- 1.2) Quantification - Construction Design Support
- 2) Task #2 – Construction IFB Support
 - 2.1) Plan/Scope - Construction IFB Support
 - 2.2) Quantification - Construction IFB Support
- 3) Task #3 – Construction Subcontract Management
 - 3.1) Plan/Scope - Construction Subcontract Management
 - 3.2) Quantification - Construction Subcontract Management
- 1.5.5 HS1AF – Subcontracts – Miscellaneous
 - 1) Task #1 – Subcontracts Miscellaneous
 - 1.1) Plan/Scope – Subcontracts Miscellaneous
 - 1.2) Quantification – Subcontracts Miscellaneous
 - 2) Task #2 – Long Lead Procurement Items
 - 2.1) Plan/Scope – Long Lead Procurement Items
 - 2.2) Quantification – Long Lead Procurement Items
 - 3) Task #3 – Advanced Construction Packages
 - 3.1) Road Access and Trailer Staging Area
 - 3.1)1 Plan/Scope – Road Access and Trailer Staging Area
 - 3.1)2 Quantification – Road Access and Trailer Staging Area
 - 3.2) Other Advanced Construction Packages
 - 3.2)1 Plan/Scope – Other Advanced Construction Packages
 - 3.2)2 Quantification – Other Advanced Construction Packages
- 1.5.6 HS1AG – Electrical Subcontract
 - 1) Plan/Scope – Electrical Subcontract
 - 2) Quantification – Electrical Subcontract
- 1.5.7 HS1AH – Mechanical Subcontract
 - 1) Plan/Scope – Mechanical Subcontract
 - 2) Quantification – Mechanical Subcontract
- 1.5.8 HS1AJ – Civil Subcontract
 - 1) Plan/Scope – Civil Subcontract
 - 2) Quantification – Civil Subcontract
- 1.5.9 HS1AK – Startup and Readiness
 - 1) Task #1 – Startup Management
 - 1.1) Plan/Scope - Startup Management
 - 1.2) Quantification - Startup Management
 - 2) Task #2 – Operations and Maintenance Procedures Development
 - 2.1) Subtask #1 – Operations
 - 2.1)1 Plan/Scope – Operations
 - 2.1)2 Quantification – Operations
 - 2.2) Subtask #2 – Maintenance
 - 2.2)1 Plan/Scope – Maintenance
 - 2.2)2 Quantification - Maintenance
 - 3) Task #3 – Training
 - 3.1) Subtask #1 – Develop Training
 - 3.1)1 Plan/Scope - Develop Training

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- 3.1)2 Quantification – Develop Training
 - 3.2) Subtask #2 – Conduct Training
 - 3.2)1 Plan/Scope – Conduct Training
 - 3.2)2 Quantification – Conduct Training
 - 4) Task #4 – System Operability Testing
 - 4.1) Subtask #1 – SOT Plans and Procedures
 - 4.1)1 Plan/Scope - SOT Plans and Procedures
 - 4.1)2 Quantification – SOT Plans and Procedures
 - 4.2) Subtask #2 – SOTs
 - 4.2)1 Plan/Scope – SOTs
 - 4.2)2 Quantification - SOTs
 - 4.3) Subtask #3 – System Operability Final Test Report
 - 4.3)1 Plan/Scope - System Operability Final Test Report
 - 4.3)2 Quantification – System Operability Final Test Report
 - 5) Task #5 – Pre-Operational Assessment Program
 - 5.1) Subtask #1 – Project Readiness Verification and Self-Assessment Team
 - 5.1)1 Plan/Scope - Project Readiness Verification and Self-Assessment Team
 - 5.2) Subtask #2 – Fluor Fernald Operational Readiness Review
 - 5.2)1 Plan/Scope - Fluor Fernald Operational Readiness Review
 - 5.2)2 Quantification - Fluor Fernald Operational Readiness Review
- 1.5.10 HS1AL – Operations and Maintenance
 - 1) Task #1 – O&M Design Support
 - 1.1) Plan/Scope – O&M Design Support
 - 1.2) Quantification – O&M Design Support
 - 2) Task #2 – O&M IFB Support
 - 2.1) Plan/Scope - O&M IFB Support
 - 2.2) Quantification - O&M IFB Support
 - 3) Task #3 – O&M Training
 - 3.1) Plan/Scope – O&M Training
 - 3.2) Quantification – O&M Training
 - 4) Task #4 – O&M SOT Support
 - 4.1) Plan/Scope – O&M SOT Support
 - 4.2) Quantification – O&M SOT Support
 - 5) Task #5 – O&M ORR Support
 - 5.1) Plan/Scope – O&M ORR Support
 - 5.2) Quantification – O&M ORR Support
 - 6) Task #6 – Waste Transfer and Treatment Process
 - 6.1) Plan/Scope – Waste Transfer and Treatment Process
 - 6.2) Quantification – Waste Transfer and Treatment Process
 - 7) Task #7 – RCS Operations and TTA Maintenance
 - 7.1) Plan/Scope – RCS Operations and TTA Maintenance

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- 7.2) Quantification – RCS Operations and TTA Maintenance
- 1.5.11 HS1AM – Waste Management
 - 1) Task #1 – Container Acquisition
 - 1.1) Plan/Scope - Container Acquisition
 - 1.2) Quantification - Container Acquisition
 - 2) Task #2 – Container Contracts
 - 2.1) Plan/Scope - Container Contracts
 - 2.2) Quantification - Container Contracts
 - 3) Task #3 – Waste Disposition
 - 3.1) Plan/Scope – Waste Disposition
 - 3.2) Quantification – Waste Disposition
 - 4) Task #4 – Transportation
 - 4.1) Subtask #1 – Prepare Transportation RFP
 - 4.1)1 Plan/Scope - Prepare Transportation RFP
 - 4.1)2 Quantification – Prepare Transportation RFP
 - 4.2) Subtask #2 – Bid and Award Transportation Contract
 - 4.2)1 Plan/Scope – Bid and Award Transportation Contract
 - 4.2)2 Quantification - Bid and Award Transportation Contract
 - 4.3) Subtask #3 – Transportation Contracts
 - 4.3)1 Plan/Scope - Transportation Contracts
 - 4.3)2 Quantification - Transportation Contracts
 - 5) Task #5 – DOE Waste Disposal
- 1.5.12 HS1AN – Facility Shutdown
 - 1) Task #1 – Facility Shutdown Work Plan
 - 1.1) Plan/Scope - Facility Shutdown Work Plan
 - 1.2) Quantification - Facility Shutdown Work Plan
 - 2) Task #2 – Facility Shutdown
 - 2.1) Plan/Scope - Facility Shutdown
 - 2.2) Quantification - Facility Shutdown
- 1.5.13 HS1AP – D&D Support
 - 1) Task #1 – D&D Implementation Plan
 - 1.1) Plan/Scope – D&D Implementation Plan
 - 1.2) Quantification - D&D Implementation Plan
 - 2) Task #2 – Prepare D&D RFP
 - 2.1) Plan/Scope - Prepare D&D RFP
 - 2.2) Quantification - Prepare D&D RFP
 - 3) Task #3 – Bid and Award D&D Contract
 - 3.1) Plan/Scope - Bid and Award D&D Contract
 - 3.2) Quantification - Bid and Award D&D Contract
 - 4) Task #4 – D&D Subcontract Management and Support
 - 4.1) Plan/Scope - D&D Subcontract Management and Support
 - 4.2) Quantification - D&D Subcontract Management and Support
- 1.5.14 HS1AR – D&D Contract
 - 1) Plan/Scope – D&D Contract

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2) Quantification – D&D Contract

- 2.0 Schedule
- 3.0 Manpower Plans
- 4.0 Estimate
- 5.0 Risk Plan

Section 1: JNMS – Nuclear Materials Disposition Management

1.0 Narrative

1.1 Overview

1.2 Assumptions/Exclusions

1.2.1 Assumptions

1.2.2 Exclusions

1.2.3 Government-Furnished Equipment/Services

1.3 Drivers

1.4 Project Physical Description

1.5 Project Plan/Technical Scope and Quantification

1.5.1 JNMSA - NMD/UWD Planning and Characterization

1) Task #1 – Planning

1.1)1 Plan/Scope - Planning

1.1)2 Quantification - Planning

2) Task #2 – Project Controls

2.1)1 Plan/Scope – Planning

2.1)2 Quantification – Project Controls

3) Task #3 – Acquisitions

3.1)1 Plan/Scope – Acquisitions

3.1)2 Quantification - Acquisitions

4) Task #4 – Administrative and Technical Support

4.1)1 Plan/Scope – Administrative and Technical Support

4.1)2 Quantification – Administrative and Technical Support

5) Task #5 – Characterization

5.1)1 Plan/Scope – Characterization

5.1)2 Quantification - Characterization

1.5.2 JNMSB - Safety Assessment

1) Task #1 – Safety Assessment

1.1) Subtask #1 – Safety Assessment

1.1)1 Plan/Scope – Safety Assessment

1.1)2 Quantification – Safety Assessment

2.0 Schedule

3.0 Manpower Plans

3.1 NMD/UWD Project Management/Support

4.0 Estimate

5.0 Risk Plan

Section 2: JNMP - Nuclear Materials Disposition

1.0 Narrative

1.1 Overview

1.2 Assumptions/Exclusions

1.2.1 Assumptions

1.2.2 Exclusions

1.2.3 Government-Furnished Equipment/Services

1.3 Drivers

1.4 Project Physical Description

1.5 Project Plan/Technical Scope and Quantification

1.5.1 JNMPC - Compounds

1) Task #1 – Planning

2) Task #2 – Packaging

2.1) Subtask #1 – Miscellaneous Depleted UF₄ Packaging

2.1)1 Plan/Scope – Miscellaneous Depleted UF₄ Packaging

2.1)2 Quantification – Miscellaneous Depleted UF₄ Packaging

2.2) Subtask #2 – 1% UO₃ (in 350-gram packages) Packaging

2.2)1 Plan/Scope – 1% UO₃ (in 350-gram packages) Packaging

2.2)2 Quantification – 1% UO₃ (in 350-gram packages) Packaging

2.3) Subtask #3 – Enriched UF₄ Packaging

2.3)1 Plan/Scope – Enriched UF₄ Packaging

2.3)2 Quantification – Enriched UF₄ Packaging

2.4) Subtask #4 – Miscellaneous Enriched $\leq 1\%$ U²³⁵ Compounds Packaging

2.4)1 Plan/Scope – Miscellaneous Enriched $\leq 1\%$ U²³⁵ Compounds Packaging

2.4)2 Quantification – Miscellaneous Enriched $\leq 1\%$ U²³⁵ Compounds Packaging

2.5) Subtask #5 - $> 1\%$ U²³⁵ UO₃ (to be repackaged) Packaging

2.5)1 Plan/Scope - $> 1\%$ U²³⁵ UO₃ (to be repackaged) Packaging

2.5)2 Quantification - $> 1\%$ U²³⁵ UO₃ (to be repackaged) Packaging

2.6) Subtask #6 – Shipping Compounds

2.6)1 Plan/Scope – Shipping Compounds

2.6)2 Quantification – Shipping Compounds

1.5.2 JNMPM - Metal

1) Task #1 – Planning

2) Task #2 – Processing

2.1) Subtask #1 – Processing Metal

2.1)1 Plan/Scope – Processing Metal

2.1)2 Quantification – Processing Metal

Section 2: JNMP - Nuclear Materials Disposition (Continued)

- 3) Task #3 – Packaging
 - 3.1) Subtask #1 – Normal and Depleted Metal Packaging
 - 3.1)1 Plan/Scope – Normal and Depleted Metal Packaging
 - 3.1)2 Quantification – Normal and Depleted Metal Packaging
 - 3.2) Subtask #2 – Miscellaneous Enriched Metal Packaging
 - 3.2)1 Plan/Scope – Miscellaneous Enriched Metal Packaging
 - 3.2)2 Quantification – Miscellaneous Enriched Metal Packaging
 - 3.3) Subtask #3 – Shipping Metal
 - 3.3)1 Plan/Scope – Shipping Metal
 - 3.3)2 Quantification – Shipping Metal
- 2.0 Schedule
- 3.0 Manpower Plans
 - 3.1 Compounds
 - 3.2 Metal
- 4.0 Estimate
- 5.0 Risk Plan

Section 3: JUWP - Uranium Waste Disposition

1.0 Narrative

1.1 Overview

1.2 Assumptions/Exclusions

1.2.1 Assumptions

1.2.2 Exclusions

1.2.3 Government-Furnished Equipment/Services

1.3 Drivers

1.4 Project Physical Description

1.5 Project Plan/Technical Scope and Quantification

1.5.1 JUWPA - Fissile Excepted and $< 1\%$ Compounds

1) Task #1 - Planning

2) Task #2 - Characterization

3) Task #3 - Processing

3.1) Subtask #1 - Miscellaneous Depleted UF₄ Processing

3.1)1 Plan/Scope - Miscellaneous Depleted UF₄ Processing

3.2) Subtask #2 - Reject Normal Compounds Processing

3.2)1 Plan/Scope - Reject Normal Compounds Processing

3.3) Subtask #3 - Depleted Compounds/Trash Processing

3.3)1 Plan/Scope - Depleted Compounds/Trash Processing

3.4) Subtask #4 - $< = 1\%$ U²³⁵ Enriched Compounds Processing

3.4)1 Plan/Scope - $< = 1\%$ U²³⁵ Enriched Compounds Processing

3.5) Subtask #5 - Reject $< = 1\%$ U²³⁵ U₃O₈ Processing

3.5)1 Plan/Scope - Reject $< = 1\%$ U²³⁵ U₃O₈ Processing

3.6) Subtask #6 - Reject $< = 1\%$ U²³⁵ Miscellaneous Compounds Processing

3.6)1 Plan/Scope - Reject $< = 1\%$ U²³⁵ Miscellaneous Compounds Processing

3.7) Subtask #7 - $> 1\%$ U²³⁵ Enriched Fissile Excepted Compounds Processing

3.7)1 Plan/Scope - $> 1\%$ U²³⁵ Enriched Fissile Excepted Compounds Processing

3.8) Task #3 Quantification

4) Task #4 - Packaging

4.1) Subtask #1 - Miscellaneous Depleted UF₄ Packaging

4.1)1 Plan/Scope - Miscellaneous Depleted UF₄ Packaging

4.1)2 Quantification - Miscellaneous Depleted UF₄ Packaging

4.2) Subtask #2 - Reject Normal Compounds Packaging

4.2)1 Plan/Scope - Reject Normal Compounds Packaging

4.2)2 Quantification - Reject Normal Compounds Packaging

4.3) Subtask #3 - Depleted Compounds/Trash Packaging

4.3)1 Plan/Scope - Depleted Compounds/Trash Packaging

4.3)2 Quantification - Depleted Compounds/Trash Packaging

Section 3: JUWP - Uranium Waste Disposition (Continued)

- 4.4) Subtask #4 – $\leq 1\%$ U^{235} Enriched Compounds Packaging
 - 4.4)1 Plan/Scope – $\leq 1\%$ U^{235} Enriched Compounds Packaging
 - 4.4)2 Quantification – $\leq 1\%$ U^{235} Enriched Compounds Packaging
- 4.5) Subtask #5 – Reject $\leq 1\%$ U^{235} U_3O_8 Packaging
 - 4.5)1 Plan/Scope – Reject $\leq 1\%$ U^{235} U_3O_8 Packaging
 - 4.5)2 Quantification – Reject $\leq 1\%$ U^{235} U_3O_8 Packaging
- 4.6) Subtask #6 – Reject $\leq 1\%$ U^{235} Miscellaneous Compounds Packaging
 - 4.6)1 Plan/Scope – Reject $\leq 1\%$ U^{235} Miscellaneous Compounds Packaging
 - 4.6)2 Quantification – Reject $\leq 1\%$ U^{235} Miscellaneous Compounds Packaging
- 4.7) Subtask #7 – $> 1\%$ U^{235} Enriched Fissile Excepted Compounds Packaging
 - 4.7)1 Plan/Scope – $> 1\%$ U^{235} Enriched Fissile Excepted Compounds Packaging
 - 4.7)2 Quantification – $> 1\%$ U^{235} Enriched Fissile Excepted Compounds Packaging
- 5) Task #5 – Fissile Excepted and $\leq 1\%$ U^{235} Compounds Shipping
 - 5.1) Subtask #1 – Fissile Excepted and $\leq 1\%$ U^{235} Compounds Shipping
 - 5.1)1 Plan/Scope – Fissile Excepted and $\leq 1\%$ U^{235} Compounds Shipping
 - 5.1)2 Quantification – Fissile Excepted and $\leq 1\%$ U^{235} Compounds Shipping
- 1.5.2 JUWPB - Fissile Excepted and Depleted Metal
 - 1) Task #1 – Planning
 - 2) Task #2 – Characterization
 - 3) Task #3 – Processing
 - 3.1) Subtask #1 – Depleted Metal Processing
 - 3.1)1 Plan/Scope – Depleted Metal Processing
 - 3.2) Subtask #2 – Depleted Ingots and Derbies Processing (potentially pyrophoric)
 - 3.2)1 Plan/Scope – Depleted Ingots and Derbies Processing
 - 3.3) Subtask #3 – Enriched Fissile Excepted Metals Processing
 - 3.3)1 Plan/Scope – Enriched Fissile Excepted Metals Processing
 - 3.4) Subtask #4 – Reject Normal Metal Processing
 - 3.4)1 Plan/Scope – Reject Normal Metal Processing
 - 3.5) Subtask #5 – Reject Miscellaneous Depleted Metal Processing
 - 3.5)1 Plan/Scope – Reject Miscellaneous Depleted Metal Processing

Section 3: JUWP - Uranium Waste Disposition (Continued)

- 3.6) Task #3 Quantification
 - 4) Task #4 – Packaging
 - 4.1) Subtask #1 – Depleted Metal Packaging
 - 4.1)1 Plan/Scope – Depleted Metal Packaging
 - 4.1)2 Quantification – Depleted Metal Packaging
 - 4.2) Subtask #2 – Depleted Ingots and Derbies Processing (potentially pyrophoric)
 - 4.2)1 Plan/Scope – Depleted Ingots and Derbies Processing
 - 4.2)2 Quantification – Depleted Ingots and Derbies Processing
 - 4.3) Subtask #3 – Enriched Fissile Excepted Metals Packaging
 - 4.3)1 Plan/Scope – Enriched Fissile Excepted Metals Packaging
 - 4.3)2 Quantification – Enriched Fissile Excepted Metals Packaging
 - 4.4) Subtask #4 – Reject Normal Metal Packaging
 - 4.4)1 Plan/Scope – Reject Normal Metal Packaging
 - 4.4)2 Quantification – Reject Normal Metal Packaging
 - 4.5) Subtask #5 – Reject Miscellaneous Depleted Metal Packaging
 - 4.5)1 Plan/Scope – Reject Miscellaneous Depleted Metal Packaging
 - 4.5)2 Quantification – Reject Miscellaneous Depleted Metal Packaging/Loading Crew
 - 5) Task #5 – Fissile Excepted and Depleted Metal Shipping
 - 5.1) Subtask #1 – Fissile Excepted and Depleted Metal Shipping
 - 5.1)1 Plan/Scope – Fissile Excepted and Depleted Metal Shipping
 - 5.1)2 Quantification – Fissile Excepted and Depleted Metal Shipping
- 1.5.3 JUWPC - RCRA Compounds, T-Hoppers and Sealed Sources
- 1) Task #1 – Planning
 - 2) Task #2 – Characterization
 - 3) Task #3 – Processing
 - 3.1) Subtask #1 – $> 1\%$ U^{235} RCRA Compounds Processing
 - 3.1)1 Plan/Scope – $> 1\%$ U^{235} RCRA Compounds Processing
 - 3.2) Subtask #2 – $\leq 1\%$ U^{235} RCRA Compounds Processing
 - 3.2)1 Plan/Scope – $\leq 1\%$ U^{235} RCRA Compounds Processing
 - 3.3) Subtask #3 – RCRA T-Hoppers Processing
 - 3.3)1 Plan/Scope – RCRA T-Hoppers Processing
 - 3.4) Subtask #4 – Sealed Sources Processing
 - 3.4)1 Plan/Scope – Sealed Sources Processing
 - 3.5) Task #3 Quantification – RCRA Compounds, RCRA T-Hoppers, Sealed Sources Processing

Section 3: JUWP - Uranium Waste Disposition (Continued)

- 4) Task #4 – Packaging
 - 4.1) Subtask #1 – $> 1\%$ U^{235} RCRA Compounds Packaging
 - 4.1)1 Plan/Scope – $> 1\%$ U^{235} RCRA Compounds Packaging
 - 4.1)2 Quantification – $> 1\%$ U^{235} RCRA Compounds Packaging
 - 4.2) Subtask #2 – $\leq 1\%$ U^{235} RCRA Compounds Packaging
 - 4.2)1 Plan/Scope – $\leq 1\%$ U^{235} RCRA Compounds Packaging
 - 4.2)2 Quantification – $\leq 1\%$ U^{235} RCRA Compounds Packaging
 - 4.3) Subtask #3 – T-Hoppers Packaging
 - 4.3)1 Plan/Scope – T-Hoppers Packaging
 - 4.3)2 Quantification – T-Hoppers Packaging
 - 4.4) Subtask #4 – Sealed Sources Packaging
 - 4.4)1 Plan/Scope – Sealed Sources Packaging
 - 4.4)2 Quantification – Sealed Sources Packaging
 - 5) Task #5 – RCRA Compounds, RCRA T-Hoppers and Sealed Sources Shipping
 - 5.1) Subtask #1 – $> 1\%$ U^{235} RCRA Compounds Shipping
 - 5.1)1 Plan/Scope – $> 1\%$ U^{235} RCRA Compounds Shipping
 - 5.1)2 Quantification – $> 1\%$ U^{235} RCRA Compounds Shipping
 - 5.2) Subtask #2 – $< 1\%$ U^{235} RCRA Compounds Shipping
 - 5.2)1 Plan/Scope – $< 1\%$ U^{235} RCRA Compounds Shipping
 - 5.2)2 Quantification – $< 1\%$ U^{235} RCRA Compounds Shipping
 - 5.3) Subtask #3 – RCRA Compounds, RCRA T-Hoppers and Sealed Sources Shipping
 - 5.1)1 Plan/Scope – $< 1\%$ U^{235} RCRA Compounds, RCRA T-Hoppers and Sealed Sources Shipping
 - 5.1)2 Quantification – $< 1\%$ U^{235} RCRA Compounds, RCRA T-Hoppers and Sealed Sources Shipping
- 1.5.4 JUWPD - Fissile Compounds
- 1) Task #1 – Planning
 - 2) Task #2 – Characterization
 - 3) Task #3 – Processing
 - 3.1) Subtask #1 – $> 1\%$ U^{235} RCRA Compounds Processing
 - 3.1)1 Plan/Scope – $> 1\%$ U^{235} RCRA Compounds Processing
 - 3.2) Subtask #2 – Reject $> 1\%$ U^{235} UF_4 Processing
 - 3.2)1 Plan/Scope – Reject $> 1\%$ U^{235} UF_4 Processing
 - 3.3) Subtask #3 – Reject $> 1\%$ U^{235} UO_3 Processing
 - 3.3)1 Plan/Scope – Reject $> 1\%$ U^{235} UO_3 Processing
 - 3.4) Subtask #4 – Reject $> 1\%$ U^{235} U_3O_8 Processing
 - 3.4)1 Plan/Scope – Reject $> 1\%$ U^{235} U_3O_8 Processing

Section 3: JUWP - Uranium Waste Disposition (Continued)

- 3.5) Subtask #5 – Reject > 1 % U²³⁵ Miscellaneous Compounds Processing
 - 3.5)1 Plan/Scope – Reject > 1 % U²³⁵ Miscellaneous Compounds Processing
- 3.6) Task #3 Quantification – Fissile Compounds Processing
- 4) Task #4 – Packaging
 - 4.1) Subtask #1 – > 1 % U²³⁵ Enriched Compounds Packaging
 - 4.1)1 Plan/Scope – > 1 % U²³⁵ Enriched Compounds Packaging
 - 4.1)2 Quantification – > 1 % U²³⁵ Enriched Compounds Packaging
 - 4.2) Subtask #2 – Reject > 1 % U²³⁵ UF₄ Packaging
 - 4.2)1 Plan/Scope – Reject > 1 % U²³⁵ UF₄ Packaging
 - 4.2)2 Quantification – Reject > 1 % U²³⁵ UF₄ Packaging
 - 4.3) Subtask #3 – Reject > 1 % U²³⁵ UO₃ Packaging
 - 4.3)1 Plan/Scope – Reject > 1 % U²³⁵ UO₃ Packaging
 - 4.3)2 Quantification – Reject > 1 % U²³⁵ UO₃ Packaging
 - 4.4) Subtask #4 – Reject > 1 % U²³⁵ UO₃ Packaging
 - 4.4)1 Plan/Scope – Reject > 1 % U²³⁵ UO₃ Packaging
 - 4.4)2 Quantification – Reject > 1 % U²³⁵ UO₃ Packaging
 - 4.5) Subtask #5 – Reject > 1 % U²³⁵ Miscellaneous Compounds Packaging
 - 4.5)1 Plan/Scope – Reject > 1 % U²³⁵ Miscellaneous Compounds Packaging
 - 4.5)2 Quantification – Reject > 1 % U²³⁵ Miscellaneous Compounds Packaging
- 5) Task #5 – Fissile Compounds Shipping
 - 5.1) Subtask #1 – Fissile Compounds Shipping
 - 5.1)1 Plan/Scope – Fissile Compounds Shipping
 - 5.2) Task #5 Quantification – Fissile Compounds Shipping
- 1.5.5 JUWPE - Fissile Metal
 - 1) Task #1 – Planning
 - 2) Task #2 – Characterization
 - 3) Task #3 – Processing
 - 3.1) Subtask #1 – < = 1 % U²³⁵ Enriched Metal Processing
 - 3.1)1 Plan/Scope – < = 1 % U²³⁵ Enriched Metal Processing
 - 3.2) Subtask #2 – > 1 % U²³⁵ Enriched Metal Processing
 - 3.2)1 Plan/Scope – > 1 % U²³⁵ Enriched Metal Processing
 - 3.3) Subtask #3 – 10 Containers of Reject Miscellaneous Enriched Metal Processing
 - 3.3)1 Plan/Scope – 10 Containers of Reject Miscellaneous Enriched Metal Processing
 - 3.4) Task #3 Quantification – Fissile Metal Processing

Section 3: JUWP - Uranium Waste Disposition (Continued)

- 4) Task #4 – Packaging
 - 4.1) Subtask #1 – $\leq 1\%$ U^{235} Enriched Metal Packaging
 - 4.1)1 Plan/Scope – $\leq 1\%$ U^{235} Enriched Metal Packaging
 - 4.1)2 Quantification – $\leq 1\%$ U^{235} Enriched Metal Packaging
 - 4.2) Subtask #2 – $> 1\%$ U^{235} Enriched Metal Packaging
 - 4.2)1 Plan/Scope – $> 1\%$ U^{235} Enriched Metal Packaging
 - 4.2)2 Quantification – $> 1\%$ U^{235} Enriched Metal Packaging
 - 4.3) Subtask #3 – Reject Miscellaneous Enriched Metal Packaging
 - 4.3)1 Plan/Scope – Reject Miscellaneous Enriched Metal Packaging
 - 4.3)2 Quantification – Reject Miscellaneous Enriched Metal Packaging
- 5) Task #5 – Fissile Metal Shipping
 - 5.1) Subtask #1 – Fissile Metal Shipping
 - 5.1)1 Plan/Scope – Fissile Metal Shipping
 - 5.1)2 Quantification – Fissile Metal Shipping
- 2.0 Schedule
- 3.0 Manpower Plans
 - 3.1 Fissile Excepted - $< 1\%$ Compounds
 - 3.2 Fissile Excepted and Depleted Metals
 - 3.3 RCRA Materials
 - 3.4 Fissile Metals and Compounds
- 4.0 Estimate
- 5.0 Risk Plan

Section 1: KBWT – Waste Treatment Program Management

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.1.1 KBWT1 – Waste Treatment Program Management
 - 1.2.1.2 General
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.3.1 KBWT1 – Waste Treatment Program Management
 - 1.4 Project Plan/Technical Scope and Quantification
 - 1.4.1 KBWT – Waste Treatment Project Management
 - 1) Task #1 – General Administration
 - 1.1) Plan/Scope
 - 1.2) Quantification
 - 2) Task #2 – Management Approvals
 - 2.1) Plan/Scope
 - 2.2) Quantification
 - 3) Task #3 – Oversight and Inspections
 - 3.1) Plan/Scope
 - 3.2) Quantification
 - 4) Task #4 – Inventory Planning
 - 4.1) Plan/Scope
 - 4.2) Quantification
 - 5) Task #5 – Work Package Development
 - 5.1) Plan/Scope
 - 5.2) Quantification
 - 6) Task #6 – Technical Program Support
 - 6.1) Plan/Scope
 - 6.2) Quantification
 - 7) Task #7 – Travel
 - 7.1) Plan/Scope
 - 7.2) Quantification
- 2.0 Schedule
- 3.0 Manpower Plans
 - 3.1 Waste Treatment Project Management
- 4.0 Estimate
- 5.0 Risk Plan

Section 2: KBRT – Organic Treatment

1.0 Narrative

1.1 Overview

1.1.1 KBRT1 – Organic Soil/Sludge/Debris

1.1.2 KBRT2 – Organic Aerosol Can Puncturing

1.2 Assumptions/Exclusions

1.2.1 Assumptions

1.2.1.1 KBRT1 – Organic Soil/Sludge/Debris

1.2.1.2 KBRT2 – Organic Aerosol Can Puncturing

1.2.1.3 General

1.2.2 Exclusions

1.2.2.1 KBRT1 – Organic Soil/Sludge/Debris

1.2.2.2 KBRT2 – Organic Aerosol Can Puncturing

1.2.3 Government-Furnished Equipment/Services

1.2.3.1 KBRT1 – Organic Soil/Sludge/Debris

1.2.3.2 KBRT2 – Organic Aerosol Can Puncturing

1.3 Drivers

1.3.1 KBRT1 – Organic Soil/Sludge/Debris

1.3.2 KBRT2 – Organic Aerosol Can Puncturing

1.4 Project Physical Description

1.4.1 KBRT1 – Organic Soil/Sludge/Debris

1.4.2 KBRT2 – Organic Aerosol Can Puncturing

1.5 Project Plan/Technical Scope and Quantification

1.5.1 KBRT1 – Organic Soil/Sludge/Debris

1) Task #1 – Planning and Management Activities

1.1) Plan/Scope

1.2) Quantification

2) Task #2 – Characterization Activities

2.1) Plan/Scope

2.2) Quantification

3) Task #3 – Processing Activities

3.1) Plan/Scope

3.2) Quantification

4) Task #4 – Packaging

4.1) Plan/Scope

4.2) Quantification

5) Task #5 – Shipping

5.1) Plan/Scope

5.2) Quantification

6) Task #6 – Off-Site Treatment

6.1) Plan/Scope

6.2) Quantification

7) Task #7 – Disposal

7.1) Plan/Scope

7.2) Quantification

Section 2: KBRT – Organic Treatment (Continued)

- 1.5.2 KBRT2 – Organic Aerosol Can Puncturing
 - 1) Task #1 – Planning and Management Activities
 - 1.1) Plan/Scope
 - 1.2) Quantification
 - 2) Task #2 – Characterization Activities
 - 2.1) Plan/Scope
 - 2.2) Quantification
 - 3) Task #3 – Processing Activities
 - 3.1) Plan/Scope
 - 3.2) Quantification
 - 4) Task #4 – Packaging
 - 4.1) Plan/Scope
 - 4.2) Quantification
 - 5) Task #5 – Shipping
 - 5.1) Plan/Scope
 - 5.2) Quantification
- 2.0 Schedule
- 3.0 Manpower Plans
 - 3.1 Organic Soil/Sludge/Debris
 - 3.2 Organic Aerosol Can Puncturing
- 4.0 Estimate
- 5.0 Risk Plan

Section 3: KBNR – Inorganic Treatment

1.0 Narrative

1.1 Overview

- 1.1.1 KBNR1 – Inorganic Mercury
- 1.1.2 KBNR2 – Inorganic Macroencapsulation/Decontamination (Macro/Decon)
- 1.1.3 KBNR3 – Inorganic Soil/Sludge/Debris

1.2 Assumptions/Exclusions

1.2.1 Assumptions

- 1.2.1.1 KBNR1 – Inorganic Mercury
- 1.2.1.2 KBNR2 – Macro/Decon
- 1.2.1.3 KBNR3 – Inorganic Soil/Sludge/Debris
- 1.2.1.4 General

1.2.2 Exclusions

1.2.3 Government-Furnished Equipment/Services

1.3 Drivers

- 1.3.1 KBNR1 – Inorganic Mercury
- 1.3.2 KBNR2 – Macro/Decon
- 1.3.3 KBNR3 – Inorganic Soil/Sludge/Debris

1.4 Project Physical Description

- 1.4.1 KBNR1 – Inorganic Mercury
- 1.4.2 KBNR2 – Macro/Decon
- 1.4.3 KBNR3 – Inorganic Soil/Sludge/Debris

1.5 Project Plan/Technical Scope and Quantification

1.5.1 KBNR1 – Inorganic Mercury

- 1) Task #1 – Planning and Management Activities
 - 1.1) Plan/Scope
 - 1.2) Quantification
- 2) Task #2 – Characterization Activities
 - 2.1) Plan/Scope
 - 2.2) Quantification
- 3) Task #3 – Processing Activities
 - 3.1) Plan/Scope
 - 3.2) Quantification
- 4) Task #4 – Packaging
 - 4.1) Plan/Scope
 - 4.2) Quantification
- 5) Task #5 – Shipping
 - 5.1) Plan/Scope
 - 5.2) Quantification
- 6) Task #6 – Off-Site Treatment
 - 6.1) Plan/Scope
 - 6.2) Quantification
- 7) Task #7 – Disposal
 - 7.1) Plan/Scope
 - 7.2) Quantification

Section 3: KBNR – Inorganic Treatment (Continued)

- 1.5.2 KBNR2 – Macro/Decon
 - 1) Task #1 – Planning and Management Activities
 - 1.1) Plan/Scope
 - 1.2) Quantification
 - 2) Task #2 – Characterization Activities
 - 2.1) Plan/Scope
 - 2.2) Quantification
 - 3) Task #3 – Processing Activities
 - 3.1) Plan/Scope
 - 3.2) Quantification
 - 4) Task #4 – Packaging
 - 4.1) Plan/Scope
 - 4.2) Quantification
 - 5) Task #5 – Shipping
 - 5.1) Plan/Scope
 - 5.2) Quantification
 - 6) Task #6 – Off-Site Treatment
 - 6.1) Plan/Scope
 - 6.2) Quantification
 - 7) Task #7 – Disposal
 - 7.1) Plan/Scope
 - 7.2) Quantification
- 1.5.3 KBNR3 – Inorganic Soil/Sludge/Debris
 - 1) Task #1 – Planning and Management Activities
 - 1.1) Plan/Scope
 - 1.2) Quantification
 - 2) Task #2 – Characterization Activities
 - 2.1) Plan/Scope
 - 2.2) Quantification
 - 3) Task #3 – Processing Activities
 - 3.1) Plan/Scope
 - 3.2) Quantification
 - 4) Task #4 – Packaging
 - 4.1) Plan/Scope
 - 4.2) Quantification
 - 5) Task #5 – Shipping
 - 5.1) Plan/Scope
 - 5.2) Quantification
 - 6) Task #6 – Off-Site Treatment
 - 6.1) Plan/Scope
 - 6.2) Quantification
 - 7) Task #7 – Disposal
 - 7.1) Plan/Scope
 - 7.2) Quantification

Section 3: KBNR – Inorganic Treatment (Continued)

- 2.0 Schedule
- 3.0 Manpower Plans
 - 3.1 Inorganic Mercury
 - 3.2 Inorganic Decon-Macro
 - 3.3 Inorganic Soil/Sludge/Debris
- 4.0 Estimate
- 5.0 Risk Plan

Section 4: KBSD – Sample Disposition

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.1.1 KBSD1 – Sample Disposition
 - 1.2.1.2 General
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.3.1 KBSD1 – Sample Disposition
 - 1.3.2 Regulatory
 - 1.4 Project Physical Description
 - 1.4.1 KBSD1 – Sample Disposition
 - 1.5 Project Plan/Technical Scope and Quantification
 - 1.5.1 KBSD1 – Sample Disposition
 - 1) Task #1 – Planning and Management Activities
 - 1.1) Plan/Scope
 - 1.2) Quantification
 - 2) Task #2 – Characterization Activities
 - 2.1) Plan/Scope
 - 2.2) Quantification
 - 3) Task #3 – Processing Activities
 - 3.1) Plan/Scope
 - 3.2) Quantification
 - 4) Task #4 – Packaging
 - 4.1) Plan/Scope
 - 4.2) Quantification
 - 5) Task #5 – Shipping
 - 5.1) Plan/Scope
 - 5.2) Quantification
- 2.0 Schedule
- 3.0 Manpower Plans
 - 3.1 Mixed Waste Sample Disposition Project
- 4.0 Estimate
- 5.0 Risk Plan

Section 5: KBTS – Mixed Waste Incineration

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.1.1 KBTS1 – Mixed Waste Incineration
 - 1.2.1.2 General
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.3.1 KBTS1 – Mixed Waste Incineration
 - 1.3.2 Regulatory
 - 1.4 Project Physical Description
 - 1.4.1 KBTS1 – Mixed Waste Incineration
 - 1.5 Project Plan/Technical Scope and Quantification
 - 1.5.1 KBTS1 – Mixed Waste Incineration
 - 1) Task #1 – Planning and Management Activities
 - 1.1) Plan/Scope
 - 1.2) Quantification
 - 2) Task #2 – Characterization Activities
 - 2.1) Plan/Scope
 - 2.2) Quantification
 - 3) Task #3 – Processing Activities
 - 3.1) Plan/Scope
 - 3.2) Quantification
 - 4) Task #4 – Packaging
 - 4.1) Plan/Scope
 - 4.2) Quantification
 - 5) Task #5 – Shipping
 - 5.1) Plan/Scope
 - 5.2) Quantification
- 2.0 Schedule
- 3.0 Manpower Plans
 - 3.1 Mixed Waste Incineration
- 4.0 Estimate
- 5.0 Risk Plan

Section 6: KBHW – Hazardous Waste

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.3.1 KBHW1 – Hazardous Waste
 - 1.4 Project Physical Description
 - 1.4.1 KBHW1 – Hazardous Waste
 - 1.5 Project Plan/Technical Scope and Quantification
 - 1.5.1 KBHW1 – Hazardous Waste
 - 1) Task #1 – Planning and Management Activities
 - 1.1) Plan/Scope
 - 1.2) Quantification
 - 2) Task #2 – Characterization Activities
 - 2.3) Plan/Scope
 - 2.4) Quantification
 - 3) Task #3 – Processing Activities
 - 3.1) Plan/Scope
 - 3.2) Quantification
 - 4) Task #4 – Packaging
 - 4.1) Plan/Scope
 - 4.2) Quantification
 - 5) Task #5 – Shipping
 - 5.1) Plan/Scope
 - 5.2) Quantification
 - 6) Task #6 – Off-Site Treatment
 - 6.1) Plan/Scope
 - 6.2) Quantification
 - 7) Task #7 – Disposal
 - 7.1) Plan/Scope
 - 7.2) Quantification
- 2.0 Schedule
- 3.0 Manpower Plans
 - 3.1 Hazardous Waste
- 4.0 Estimate
- 5.0 Risk Plan

Section 7: KBLA – AWWT Liquids

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.4 Project Physical Description
 - 1.5 Project Plan/Technical Scope and Quantification
 - 1.5.1 KLBA1 – AWWT Liquids
 - 1) Task #1 – Planning and Management Activities
 - 1.1) Plan/Scope
 - 1.2) Quantification
 - 2) Task #2 – Characterization Activities
 - 2.1) Plan/Scope
 - 2.2) Quantification
 - 3) Task #3 – Processing Activities
 - 3.1) Plan/Scope
 - 3.2) Quantification
 - 4) Task #4 – Packaging
 - 4.1) Plan/Scope
 - 4.2) Quantification
 - 5) Task #5 – Shipping
 - 5.1) Plan/Scope
 - 5.2) Quantification
- 2.0 Schedule
- 3.0 Manpower Plans
 - 3.1 AWWT Liquids
- 4.0 Estimate
- 5.0 Risk Plan

Section 1: MMMA – WGS Program Management

- 1.0 Narrative
 - 1.1 Overview
 - 1.1.1 Waste Program Management
 - 1.1.2 Low Level Waste Administration
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.1.1 Waste Program Management
 - 1.2.1.2 Low Level Waste Administration
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.4 Scope of Work
 - 1.4.1 MMMA1 – WGS Program Management
 - 1.4.1.1 Management
 - 1.4.1.2 WGS Environmental Compliance
 - 1.4.1.3 WGS Safety and Health
 - 1.4.1.4 WGS Quality Assurance
 - 1.4.1.5 WGS Administration
 - 1.4.1.6 Waste Planning and Integration
 - 1.4.1.7 WGS Project Controls
 - 1.4.1.8 WGS Operations Administration
 - 1.4.1.9 WGS Training
 - 1.4.1.10 Task Order Writing
 - 1.4.1.11 Sanitary Waste/Recycling/Waste Minimization/Pollution Prevention Administration
 - 1.4.2 Low Level Waste Administration
- 2.0 Manpower Plans
 - 2.1 WGS Program Management
 - 2.2 LLW Administration
- 3.0 Estimate
- 4.0 Risk Plan

Section 2: MMMB – Waste Management Operations Sitewide Support

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.1.1 MMMB1 - Waste Acceptance/Waste Characterization/Inventory Management
 - 1.2.1.2 MMMB2 – Shipping/Traffic/Container Management
 - 1.2.1.3 MMMB3 – Warehousing and Surveillance
 - 1.2.1.4 MMMB4 – Decontamination Services
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.2.4 General
 - 1.3 Drivers
 - 1.3.1 Administrative Drivers
 - 1.3.2 Physical Drivers
 - 1.3.3 Shipping/Traffic/Container Management
 - 1.3.4 Warehousing and Surveillance
 - 1.3.5 Decontamination Services
 - 1.3.6 General
 - 1.4 Project Physical Description
 - 1.4.1 MMMB1 - Waste Acceptance/Waste Characterization/Inventory Management
 - 1.4.2 Shipping/Traffic/Container Management
 - 1.4.3 Warehousing and Surveillance
 - 1.4.4 Decontamination Services
 - 1.5 Project Plan/Technical Scope and Quantification
 - 1.5.1 MMMB1 – Waste Acceptance/Waste Characterization/Inventory Management
 - 1.5.2 MMMB2 – Shipping/Traffic/Container Management
 - 1.5.2.1 Packaging
 - 1.5.2.2 Shipping
 - 1.5.3 MMMB3 – Warehousing and Surveillance
 - 1.5.4 MMMB4 – Decontamination Services
 - 1.5.4.1 Cleaning
 - 1.5.4.2 Preparing Rolling Stock
 - 1.5.4.3 Pumping Sumps at the FEMP
- 2.0 Manpower Plans
 - 2.1 Waste Acceptance/Waste Characterization/Inventory Management
 - 2.2 Shipping/Traffic/Container Management
 - 2.3 Warehousing and Surveillance
 - 2.4 Decontamination Services
- 3.0 Estimate
- 4.0 Risk Plan

Section 3: MMMC – LLW Trash

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.1.1 General
 - 1.2.1.2 Contaminated Dumpster Trash
 - 1.2.1.3 Debris/Non-Compactible Trash
 - 1.2.1.4 Yard Scrap/Rolling Stock/Excess Containers
 - 1.2.1.5 OSDF
 - 1.2.1.6 NTS
 - 1.2.2 Exclusions
 - 1.2.2.1 Contaminated Dumpster Trash
 - 1.2.2.2 Debris/Non-Compactible Trash
 - 1.2.2.3 Yard Scrap/Rolling Stock/Excess Containers
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.3.1 Events
 - 1.3.2 Requirements
 - 1.4 Project Physical Description
 - 1.4.1 Task #1 - MMMC1 – Compactible Dumpster Trash
 - 1.4.2 Task #2 - MMMC2 – Debris/Non-Compactible Trash
 - 1.4.3 Task #3 - MMMC3 – Yard Scrap/Rolling Stock/Excess Containers
 - 1.5 Project Plan/Technical Scope and Quantification
 - 1.5.1 MMMC1 – Contaminated Dumpster Trash
 - 1) Subtask #1 – Planning
 - 1.1) Plan/Scope
 - 1.2) Quantification
 - 2) Subtask #2 – Characterization
 - 2.1) Plan/Scope
 - 2.2) Quantification
 - 3) Subtask #3 – Processing
 - 3.1) Plan/Scope
 - 3.2) Quantification
 - 4) Subtask #4 – Packaging
 - 4.1) Plan/Scope
 - 4.2) Quantification
 - 5) Subtask #5 – Shipping
 - 5.1) Plan/Scope
 - 5.2) Quantification
 - 1.5.2 MMMC2 – Debris/Non-Compactible Trash
 - 1) Subtask #1 – Planning
 - 1.1) Plan/Scope
 - 1.2) Quantification

Section 3: MMMC – LLW Trash (Continued)

- 2) Subtask #2 – Characterization
 - 2.1) Plan/Scope
 - 2.2) Quantification
- 3) Subtask #3 – Processing
 - 3.1) Plan/Scope
 - 3.2) Quantification
- 4) Subtask #4 – Packaging
 - 4.1) Plan/Scope
 - 4.2) Quantification
- 5) Subtask #5 – Shipping
 - 5.1) Plan/Scope
 - 5.2) Quantification
- 1.5.3 MMMC3 – Yard Scrap/Rolling Stock/Excess Containers
 - 1) Subtask #1 – Planning
 - 1.1) Plan/Scope
 - 1.2) Quantification
 - 2) Subtask #2 – Characterization
 - 2.1) Plan/Scope
 - 2.2) Quantification
 - 3) Subtask #3 – Processing
 - 3.1) Plan/Scope
 - 3.2) Quantification
 - 4) Subtask #4 – Packaging
 - 4.1) Plan/Scope
 - 4.2) Quantification
 - 5) Subtask #5 – Shipping
 - 5.1) Plan/Scope
 - 5.2) Quantification
- 2.0 Schedule
- 3.0 Manpower Plans
 - 3.1 Compactible Dumpster Trash
 - 3.2 Non-Compactible LLW Trash
 - 3.3 Yard Scrap/Rolling Stock/Excess Containers
- 4.0 Estimate
- 5.0 Risk Plan

Section 4: MMMD – Asbestos Disposition

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.1.1 General
 - 1.2.1.2 NTS
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.3.1 Events
 - 1.3.2 Requirements
 - 1.4 Project Physical Description
 - 1.4.1 Task #1 – MMMD1 – Asbestos Disposition
 - 1.5 Project Plan/Technical Scope and Quantification
 - 1.5.1 MMMD1 - Asbestos Disposition
 - 1) Subtask #1 – Planning
 - 1.1) Plan/Scope
 - 1.2) Quantification
 - 2) Subtask #2 – Characterization
 - 2.1) Plan/Scope
 - 2.2) Quantification
 - 3) Subtask #3 – Processing
 - 3.1) Plan/Scope
 - 3.2) Quantification
 - 4) Subtask #4 – Packaging
 - 4.1) Plan/Scope
 - 4.2) Quantification
 - 5) Subtask #5 – Shipping
 - 5.1) Plan/Scope
 - 5.2) Quantification
 - 6) Subtask #6 – Off-Site Treatment and Disposition
 - 6.1) Plan/Scope
 - 6.2) Quantification
- 2.0 Schedule
- 3.0 Manpower Plans
 - 3.1 Asbestos Disposition
- 4.0 Estimate
- 5.0 Risk Plan

Section 5: MMME – Residue Disposition

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.1.1 General
 - 1.2.1.2 NTS
 - 1.2.1.3 Envirocare
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.3.1 Events
 - 1.3.2 Requirements
 - 1.4 Project Physical Description
 - 1.4.1 Task #1 – MMME1 – Residues (NTS) Disposition
 - 1.4.2 Task #2 – MMME2 – Residues (Envirocare) Disposition
 - 1.5 Project Plan/Technical Scope and Quantification
 - 1.5.1 MMME1 - Residues (NTS) Disposition
 - 1) Subtask #1 – Planning
 - 1.1) Plan/Scope
 - 1.2) Quantification
 - 2) Subtask #2 – Characterization
 - 2.1) Plan/Scope
 - 2.2) Quantification
 - 3) Subtask #3 – Processing
 - 3.1) Plan/Scope
 - 3.2) Quantification
 - 4) Subtask #4 – Packaging
 - 4.1) Plan/Scope
 - 4.2) Quantification
 - 5) Subtask #5 – Shipping
 - 5.1) Plan/Scope
 - 5.2) Quantification
 - 1.5.2 MMME2 - Residues (Envirocare) Disposition
 - 1) Subtask #1 – Planning
 - 1.1) Plan/Scope
 - 1.2) Quantification
 - 2) Subtask #2 – Characterization
 - 2.1) Plan/Scope
 - 2.2) Quantification
 - 3) Subtask #3 – Processing
 - 3.1) Plan/Scope
 - 3.2) Quantification

Section 5: MMME – Residue Disposition (Continued)

- 4) Subtask #4 – Packaging
 - 4.1) Plan/Scope
 - 4.2) Quantification
 - 5) Subtask #5 – Shipping
 - 5.1) Plan/Scope
 - 5.2) Quantification
- 2.0 Schedule
- 3.0 Manpower Plans
 - 3.1 Residues (NTS) Disposition
 - 3.2 Residues SP #7
- 4.0 Estimate
- 5.0 Risk Plan

Section 6: MMMF – Soils Disposition

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.1.1 General
 - 1.2.1.2 Soils and Pit Waste
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.3.1 Events
 - 1.3.2 Requirements
 - 1.4 Project Physical Description
 - 1.4.1 Task #1 – MMMF1 – Soils Disposition
 - 1.5 Project Plan/Technical Scope and Quantification
 - 1.5.1 MMMF1 - Soils Disposition
 - 1) Subtask #1 – Planning
 - 1.1) Plan/Scope
 - 1.2) Quantification
 - 2) Subtask #2 – Characterization
 - 2.1) Plan/Scope
 - 2.2) Quantification
 - 3) Subtask #3 – Processing
 - 3.1) Plan/Scope
 - 3.2) Quantification
- 2.0 Schedule
- 3.0 Manpower Plans
 - 3.1 Soils Disposition
- 4.0 Estimate
- 5.0 Risk Plan

Section 7: MMMG – LLW Thorium

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.1.1 General
 - 1.2.1.2 LLW Thorium (Thoria Gel and Thorium Residues) and Thorium Trash
 - 1.2.1.3 Thorium Requirement Treatment
 - 1.2.2 Exclusions
 - 1.2.2.1 General
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.3.1 Events
 - 1.3.2 Requirements
 - 1.4 Project Physical Description
 - 1.4.1 Task #1 – MMMG1 – LLW Thorium
 - 1.4.2 Task #2 – MMMG2 – LLW Thorium Requiring Treatment
 - 1.5 Project Plan/Technical Scope and Quantification
 - 1.5.1 MMMG1 - LLW Thorium
 - 1) Subtask #1 – Planning
 - 1.1) Plan/Scope
 - 1.2) Quantification
 - 2) Subtask #2 – Characterization
 - 2.1) Plan/Scope
 - 2.2) Quantification
 - 3) Subtask #3 – Packaging
 - 3.1) Plan/Scope
 - 3.2) Quantification
 - 4) Subtask #4 – Shipping
 - 4.1) Plan/Scope
 - 4.2) Quantification
 - 1.5.2 MMMG2 - Thorium Requiring Treatment
 - 1) Subtask #1 – Planning
 - 1.1) Plan/Scope
 - 1.2) Quantification
 - 2) Subtask #2 – Characterization
 - 2.1) Plan/Scope
 - 2.2) Quantification
 - 3) Subtask #3 – Packaging
 - 3.1) Plan/Scope
 - 3.2) Quantification
 - 4) Subtask #4 – Shipping
 - 4.1) Plan/Scope
 - 4.2) Quantification

Section 7: MMMG – LLW Thorium (Continued)

- 2.0 Schedule
- 3.0 Manpower Plans
 - 3.1 LLW Thorium
 - 3.2 Thorium Requiring Treatment
- 4.0 Estimate
- 5.0 Risk Plan

Part 1: NAAA – Operations
Section 1: NAAAA – Legal Affairs

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions
 - 1.3 Drivers
 - 1.4 Scope of Work
 - 1.4.1 Attorneys
 - 1.4.2 Legal Administration
 - 1.4.3 The Plan
 - 1.4.4 The Quantification
- 2.0 Manpower Plans
 - 2.1 Legal Affairs
- 3.0 Estimate
- 4.0 Risk Plan

Part 1: NAAA – Operations

Section 2: NAAAB – Public Affairs

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions
 - 1.3 Drivers
 - 1.4 Scope of Work
 - 1.4.1 Public Involvement
 - 1.4.2 External Communications
 - 1.4.3 Internal Communications
 - 1.4.4 Education Outreach
 - 1.4.5 Multimedia Visual Services
 - 1.4.6 Quantification Summary
- 2.0 Manpower Plans
 - 2.1 Public Affairs
- 3.0 Estimate
- 4.0 Risk Plan

Part 1: NAAA – Operations

Section 3: NAAAC – Internal Audit

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions
 - 1.3 Drivers
 - 1.4 Scope of Work
 - 1.4.1 Director
 - 1.4.2 Auditors
 - 1.4.3 Administrative Assistant
- 2.0 Manpower Plans
 - 2.1 Internal Audit
- 3.0 Estimate
- 4.0 Risk Plan

Part 1: NAAA – Operations

Section 4: NAAAD – Industrial Relations

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions
 - 1.3 Drivers
 - 1.4 Scope of Work
 - 1.4.1 Industrial Relations
- 2.0 Manpower Plans
 - 2.1 Industrial Relations
- 3.0 Estimate
- 4.0 Risk Plan

Part 1: NAAA – Operations

Section 5: NAAAE – Office of the President

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions
 - 1.3 Drivers
 - 1.4 Scope of Work
 - 1.4.1 Office of the President
- 2.0 Manpower Plans
 - 2.1 Office of the President
- 3.0 Estimate
- 4.0 Risk Plan

Part 1: NAAA – Operations

Section 6: NAAAF – Project Controls

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions
 - 1.3 Drivers
 - 1.4 Scope of Work
 - 1.4.1 Functional Area Technical Management
 - 1.4.2 Funding and Change Control
 - 1.4.3 Programmatic Budgeting
 - 1.4.4 Estimating Services
 - 1.4.5 Systems Integration and Reporting
 - 1.4.6 Cost and Schedule Control
 - 1.4.7 PBS12 Control Team
 - 1.4.8 Non-Defense Control Team
- 2.0 Manpower Plans
 - 2.1 Project Controls
- 3.0 Estimate
- 4.0 Risk Plan

Part 1: NAAA – Operations
Section 7: NAAAG – Finance

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions
 - 1.3 Drivers
 - 1.4 Scope of Work
 - 1.4.1 Department Management
 - 1.4.2 Project Cost Analyst
 - 1.4.3 Accounts Payable
 - 1.4.4 General Accounting
 - 1.4.5 Payroll
 - 1.4.6 Quantification Summary Plan
- 2.0 Manpower Plans
 - 2.1 Finance
- 3.0 Estimate
- 4.0 Risk Plan

Part 1: NAAA – Operations

Section 8: NAAAH – Contracts and Acquisitions

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions
 - 1.3 Drivers
 - 1.4 Scope of Work
 - 1.4.1 Administration of Prime Contract
 - 1.4.2 Contracts and Acquisitions Management
- 2.0 Manpower Plans
 - 2.1 Contracts and Acquisitions
- 3.0 Estimate
- 4.0 Risk Plan

Part 1: NAAA – Operations

Section 9: NAAAJ – Cost and Schedule Improvements

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions
 - 1.3 Drivers
 - 1.4 Scope of Work
 - 1.4.1 Cost and Schedule Improvements
- 2.0 Manpower Plans
 - 2.1 Cost and Schedule Improvements
- 3.0 Estimate
- 4.0 Risk Plan

Part 1: NAAA – Operations

Section 10: NAAAK – G&A Cost

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions
 - 1.3 Drivers
 - 1.4 Scope of Work
- 2.0 Manpower Plans
- 3.0 Estimate
- 4.0 Risk Plan

Part 1: NAAA – Operations
Section 11: NAAAN – Transition Costs

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions
 - 1.3 Drivers
 - 1.4 Scope of Work
- 2.0 Manpower Plans
- 3.0 Estimate
- 4.0 Risk Plan

Part 1: NAAA – Operations

Section 12: NAAAR – Contract Insurance

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions
 - 1.3 Drivers
 - 1.4 Scope of Work
- 2.0 Manpower Plans
- 3.0 Estimate
- 4.0 Risk Plan

Part 1: NAAA – Operations

Section 13: NAAAT – Additional TP Holiday

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions
 - 1.3 Drivers
 - 1.4 Scope of Work
- 2.0 Manpower Plans
- 3.0 Estimate
- 4.0 Risk Plan

Part 1: NAAA – Operations

Section 14: NAAAU – Field Office Support

1.0 Narrative

- 1.1 Overview
- 1.2 Assumptions
- 1.3 Drivers
- 1.4 Scope of Work

2.0 Manpower Plans

3.0 Estimate

4.0 Risk Plan

**Part 1: PADD/PAMM/PAQF/PAST/PASW/PATP/PLTS/PMMB/PMND/PPCS/PUDP –
Technology Programs**
Section 1: Technology Development

1.0 Narrative

1.1 Overview

1.2 Assumptions/Exclusions

1.2.1 Assumptions

1.2.2 Exclusions

1.2.3 Government-Furnished Equipment/Services

1.3 Drivers

1.3.1 Priority Fernald Projects

1.3.2 DOE Drivers

1.4 Project Physical Description

1.5 Scope of Work

1.5.1 Task #1 - PATP – TTP No. OH17PS01, TPO Support

1.5.1)1 Plan/Scope

1.5.1)2 Quantification

1.5.2 Task #2 - PAMM – TTP No. OH10DD31, Improved Monitoring and Measurement System

1.5.2)1 Plan/Scope

1.5.2)2 Quantification

1.5.3 Task #3 - PMMB – TTP No. OH00MW21, Microchip Memory Button (Large Scale)

1.5.3)1 Scope

1.5.3)2 Quantification

1.5.4 Task #4 - PADD – TTP No. OH16DD21, Large Scale Technology Demonstration and Deployment

1.5.4)1 Plan/Scope

1.5.4)2 Quantification

1.5.5 Task #5 - PAQF – TTP No. OH18SS40, Aquifer Flushing and Support

1.5.5)1 Plan/Scope

1.5.5)2 Quantification

1.5.6 Task #6 - PAST – TTP No. OH19DD61, Mobile Work Platform/TTP No. OH11DD31, Integrated Excavation Control System (CA To Be Determined)

1.5.6)1 Plan/Scope

1.5.6)2 Quantification

1.5.7 Task #7 – TTP No. OH11SS31, Integrated Excavation Control System (CA To Be Determined)

1.5.7)1 Plan/Scope

1.5.7)2 Quantification

1.5.8 Task #8 – PASW – TTP No. OH08SD10, Mobile Radiation Tracking System

1.5.8)1 Plan/Scope

1.5.8)2 Quantification

**Part 1: PADD/PAMM/PAQF/PAST/PASW/PATP/PLTS/PMMB/PMND/PPCS/PUDP –
Technology Programs**

Section 1: Technology Development

- 1.5.9 Task #9 – PLTS – TTP No. OH10SS20, Fernald Post Closure
Stewardship Technology Project
 - 1.5.9)1 Plan/Scope
 - 1.5.9)2 Quantification
- 1.5.10 Task #10 – PPCS – TTP No. OH19DD62, Fernald Technology Transfer
Project
 - 1.5.10)1 Plan/Scope
 - 1.5.10)2 Quantification
- 1.5.11 Task #11 – PUDP – TTP No. OH10DD21, Universal Demolition Processor
 - 1.5.11)1 Plan/Scope
 - 1.5.11)2 Quantification
- 1.5.12 Task #12 – TTP To Be Determined, Future New Project(s) To Be Defined
 - 1.5.12)1 Plan/Scope
 - 1.5.12)2 Quantification

2.0 Manpower Plans

2.1 Technology Development Programs

3.0 Estimate

4.0 Risk Plan

Part 2: PCAA/PCAB/PCYB/PWVA/PVTS – Miscellaneous Programs
Section 1: Miscellaneous Programs

1.0 Narrative

1.1 Overview

1.2 Assumptions/Exclusions

1.2.1 Assumptions

1.2.2 Exclusions

1.2.3 Government-Furnished Equipment/Services

1.3 Drivers

1.4 Scope of Work

1.4.1 Task #1 - PCAA1 – Health Surveillance Activities

1.4.1)1 Plan/Scope

1.4.1)2 Quantification

1.4.2 Task #2 - PCYB1 – Cyber Security Fire Wall

1.4.2)1 Plan/Scope

1.4.2)2 Quantification

1.4.3 Task #3 - PCAB2/PWVA/PVTS1 – Other Miscellaneous Programs

1.4.3)1 Plan/Scope

1.4.3)2 Quantification

1.4.4 Task #4 – PCPA Energy Employees Occupational Illness Compensation
Program Act (EEOICPA) Activities

1.4.4)1 Plan/Scope

1.4.4)2 Quantification

1.4.5 Task #5 – PTSD Integrated Technology Suite Deployment at Oak Ridge
(OR001SS2)

1.4.5)1 Plan/Scope

1.4.5)2 Quantification

2.0 Manpower Plans

2.1 Miscellaneous Programs

3.0 Estimate

4.0 Risk Plan

Part 3: PSEC – Safeguards and Security
Section 1: PSEC1 – Protective Forces

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.4 Scope of Work
 - 1.4.1 Task #1 – Protective Forces
 - 1.4.2 Task #2 – Access Administration
 - 1.4.3 Task #3 – Security Investigations
 - 1.4.4 Task #4 – Lock and Key
 - 1.4.5 Task #5 – Security Management/Supervision/Clerical Support
 - 1.4.6 Plan/Scope
 - 1.4.7 Quantification
- 2.0 Manpower Plans
 - 2.1 Safeguards and Securities Protective Forces
- 3.0 Estimate
- 4.0 Risk Plan

Part 3: PSEC – Safeguards and Security

Section 2: PSEC2 – Materials Control and Accountability (MC&A) Programmatic

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.4 Scope of Work
 - 1.4.1 Task #1 – PSEC2 – Materials Control and Accountability
 - 1.4.1)1 Plan/Scope
 - 1.4.1)2 Quantification
- 2.0 Manpower Plans
 - 2.1 Safeguards and Securities MC&A Programmatic
- 3.0 Estimate
- 4.0 Risk Plan

Part 3: PSEC – Safeguards and Security
Section 3: PSEC3 – Cyber Security

- 1.0 Narrative
 - 1.1 Overview
 - 1.2 Assumptions/Exclusions
 - 1.2.1 Assumptions
 - 1.2.2 Exclusions
 - 1.2.3 Government-Furnished Equipment/Services
 - 1.3 Drivers
 - 1.4 Scope of Work
 - 1.4.1 Task #1 – Computer Security Administration
 - 1.4.2 Task #2 – Computer Audits and Assessments
 - 1.4.3 Task #3 – Daily Operations
 - 1.4.4 Plan/Scope
 - 1.4.5 Quantification
- 2.0 Manpower Plans
 - 2.1 Safeguards and Securities Cyber Security
- 3.0 Estimate
- 4.0 Risk Plan

Fluor Fernald

**FUNCTIONAL RESPONSIBILITIES
MATRIX**

**FUNCTIONAL SCOPE: BUDGET
ACCOUNTABILITY DESCRIPTION**

**MANPOWER PLANNING
FOR THE BASIS-OF-ESTIMATE**

Revision 2

Fluor Fernald

**FUNCTIONAL SCOPES &
RESPONSIBILITIES, MANPOWER PLAN
Revision 2**

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**FUNCTIONAL SCOPES &
RESPONSIBILITIES, MANPOWER PLAN
Revision 2**

Fluor Fernald

**FUNCTIONAL SCOPES &
RESPONSIBILITIES, MANPOWER PLAN
Revision 2**

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4. Manpower Planning Guidance

FLUOR FERNALD

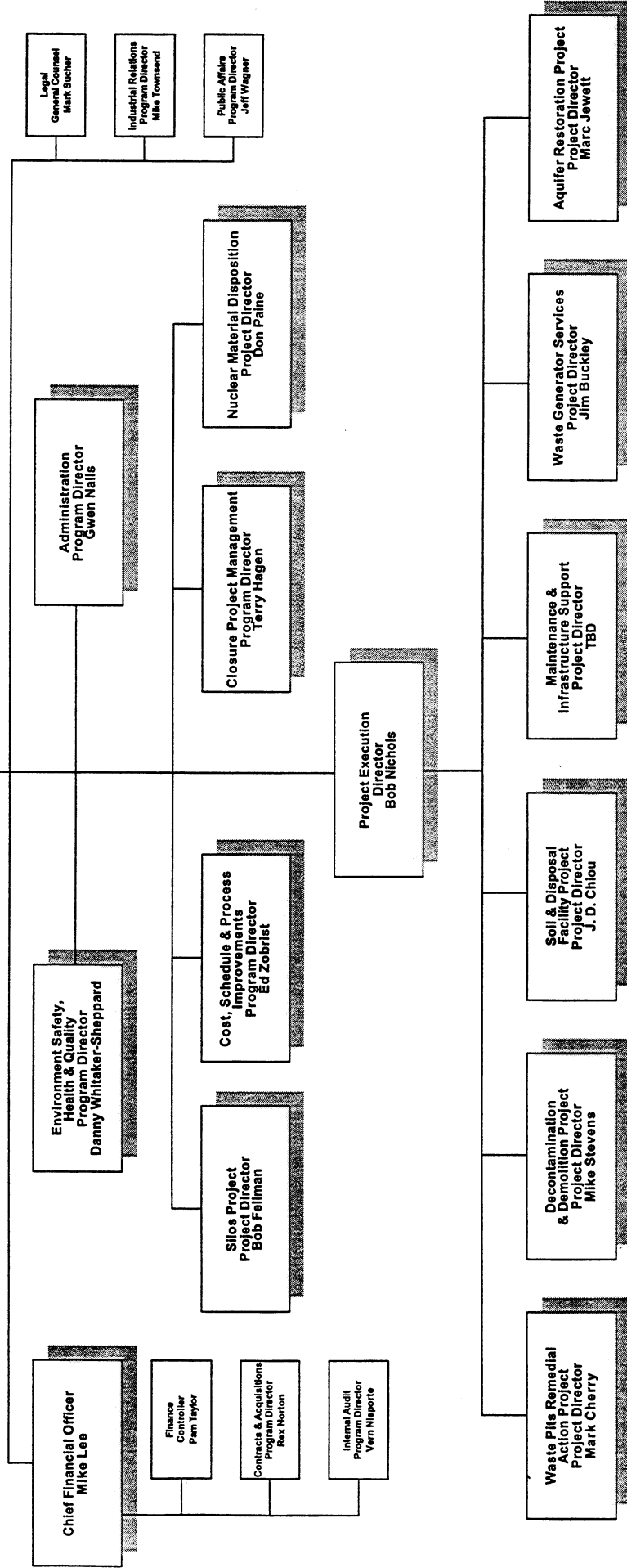
Chairman & CEO
John C. Bradburne
President
Jamie Jameson
Exec. VP & Chief Operating Officer
Dennis Carr

John Bradburne, Chairman & CEO

Date _____

Independent Safety Review Committee (ISRC)

Debbie Pleva



FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Project/Program	Functional Area of Responsibility	Responsible Name	Phone
Office of the President	Office of the President	John Bradburne	3311
Office of the President	Contracts & Acquisitions	Rex Norton	4322
Office of the President	Legal Affairs	Mark Sucher	3411
Office of the President	Public Affairs	Jeff Wagner	4898
Office of the President	Finance	Pam Taylor	6182
Office of the President	Industrial Relations	Mike Townsend	5050
Office of the President	Internal Audit	Vern Nieporte	6322
Office of the President	Project Controls	Wayne Reed	3339
Environment, Safety, Health & Quality	Environment, Safety, Health & Quality	Danny Whitaker-Sheppard	3094
Environment, Safety, Health & Quality	Emergency Services	Pat Kraps	4217
Environment, Safety, Health & Quality	Environmental Compliance	Tim Poff	5286
Environment, Safety, Health & Quality	MC&A Programs	Sarah Aldrich	3115
Environment, Safety, Health & Quality	Security & Access	George Barr	4100
Environment, Safety, Health & Quality	Operation Assurance	Linda England	4649
Environment, Safety, Health & Quality	Safety & Health	Sharon Kohler	4165
Environment, Safety, Health & Quality	OS&H	Bob Cullison	3160
Environment, Safety, Health & Quality	Medical	Debby Smith	4442
Environment, Safety, Health & Quality	Radiological Control - ESH&Q	Stu Hinnefeld	4358
Environment, Safety, Health & Quality	Program Safety Analysis	Doug Daniels	4344
Environment, Safety, Health & Quality	Quality Assurance	Brinley Vachol	4269
Administration	Diversity Programs	Gwen Jones	6261
Administration	Information Management	Jack Gibson	6240
Administration	Human Resources	Paul Mohr	6419
Administration	Program Support Services	Luther Brown	6202
Silos Project	Silos Project	Bob Fellman	4755
Cost & Schedule Improvements	Cost & Schedule Improvements	Ed Zobrist	3111
Closure Project Management	Stewardship Management	Eric Woods	5268
Closure Project Management	Site Closure Planning & Integration	Dennis Nixon	4800
Closure Project Management	Engineering Services	Norm Pennington	6444
Closure Project Management	Technology Programs	Paul Pettit	4960
Closure Project Management	Cultural Resources	Joe Schomaker	7500
Nuclear Material	Nuclear Material	Don Paine	5310
Waste Pits Remedial Action Plan	Waste Pits Remedial Action Plan	Mark Cherry	3786
Decontamination & Demolition Project	Decontamination & Demolition Project	Mike Stevens	5187
Soil & Disposal Facility Project	Soil & Disposal Facility Project	J.D. Chiou	3726
Maintenance & Infrastructure Support	ESH&D/Rad Operations	Steve Wentzel	4289
Maintenance & Infrastructure Support	Infrastructure Services	Robert Hammack	3874
Maintenance & Infrastructure Support	Property	Doug Copenhefer	4164
Maintenance & Infrastructure Support	Labor Hour Support & Planning	Lorie Howard	4104
Maintenance & Infrastructure Support	Transportation	Phil Kraus	5513
Maintenance & Infrastructure Support	Maintenance	Brian Howard	5797
Maintenance & Infrastructure Support	Quality Control Operations	Vern Turner	4926
Waste Generator Services	Waste Generator Services	Jim Buckley	3232
Waste Generator Services	Waste Acceptance Organization - WGS	Sue Lorenz	5864
Aquifer Restoration Project	Aquifer Restoration/Water Treatment	Dave Brettschneider	5814
Aquifer Restoration Project	Environmental Monitoring	Mike Frank	7597
Aquifer Restoration Project	Sample & Data Management	Chris Sutton	5441
Aquifer Restoration Project	Analytical Laboratory Services	Amy Meyer	5423

FUNCTIONAL RESPONSIBILITIES

Administration

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Office Services	1. Provides printing and copying services, mail and courier services; small office equipment maintenance and tracking; and oversees copier contract. 2. Provides administrative duties for division.	Admin. Manager Clerks	C C
Support Organizations:			
Administration	See above.	N/A	N/A
Analytical Lab Services	Provide information and interact with Administrative Services as requested.	N/A	N/A
Contracts & Acquisition (Prime Contract)	None.	N/A	N/A
Cost & Schedule Improvements	None.	N/A	N/A
Cultural Resources	Provide information and interact with Administrative Services as requested.	N/A	N/A
Doc. Control/Procedure Mgmt.	"	N/A	N/A
Emergency, Security & Safeguards	"	N/A	N/A
Engineering Services	"	N/A	N/A
Environmental Compliance	"	N/A	N/A
Environmental Monitoring	"	N/A	N/A
ES&H/RAD Operations	"	N/A	N/A
ES&H/RAD Programmatic	"	N/A	N/A
Field Procurement	"	N/A	N/A
Finance	"	N/A	N/A
Human Resources	"	N/A	N/A
Industrial Relations	"	N/A	N/A
Information Management	"	N/A	N/A

* P = Assigned to Project

M = Matrixed to Project or Department

C = Centralized in Functional Department

FUNCTIONAL RESPONSIBILITIES

Administration

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Infrastructure Services <ul style="list-style-type: none"> • Facility Engineering • Facility Services • Maintenance • Transportation • Utilities 	Provide information and interact with Administrative Services as requested.	N/A	N/A
Internal Audit	Provide information and interact with Administrative Services as requested.	N/A	N/A
Legal Affairs	Provide information and interact with Administrative Services as requested.	N/A	N/A
Materials Control & Account.	"	N/A	N/A
Operations Assurance	"	N/A	N/A
Project Controls	"	N/A	N/A
Property Management	"	N/A	N/A
Public Affairs	"	N/A	N/A
QA Programmatic	"	N/A	N/A
QC Operations	"	N/A	N/A
Records Management	"	N/A	N/A
Sample Data Management	"	N/A	N/A
Site Closure Planning & Integration	"	N/A	N/A
Stewardship Planning	"	N/A	N/A
Technology Program	"	N/A	N/A
Training	"	N/A	N/A
WAO	"	N/A	N/A
Workforce Restructuring	"	N/A	N/A
Construction Support Contractor	"	N/A	N/A
Waste Pits	"	N/A	N/A

* P = Assigned to Project
M = Matrixed to Project or Department
C = Centralized in Functional Department

FUNCTIONAL RESPONSIBILITIES

Administration

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
D&D	"	N/A	N/A
Soils/OSDF	"	N/A	N/A
Silos	"	N/A	N/A
Aquifer Restoration Project	"	N/A	N/A
Waste Generator Services: LLW & Waste Treatment	"	N/A	N/A
Nuclear Material Disposition	"	N/A	N/A

* P = Assigned to Project
M = Matrixed to Project or Department
C = Centralized in Functional Department

FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Administrative Services
Functional Area Manager: Kathy Reid
Project/Program: Administration

I. List scope provided within your own central/core group's budgeted scope.

- Site-wide Reprographic services.
- Site-wide Printing services.
- Site-wide Mail Services (including Courier & Bulk Mail Contract).
- Site-wide Small Office Equipment (including ordering, tracking, reallocation, maintenance and service of fax machines, shredders, typewriters and time stamps).
- Site-wide Copier Services (including Copier contract, tracking, reallocation, and service).
- Records Management Program Coordinator for the Office of the President & Directorates, Administration and Site Closure Divisions.
- Provide administrative support to the Office of the President & Directorates and Administration on Safety and other special projects.
- All travel, training and materials required to perform this scope.

II. List scope/expertise administratively provided to the site that is costed to the "Project".

- Centralized function – Budget by Administrative Services organization. Need to communicate with projects to identify expectations. Projects may budget for special services as needed.

III. List scope/expertise provided to the site that is managed by and costed to the "Project".

- None.

FUNCTIONAL RESPONSIBILITIES

Analytical Lab Services

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Analytical Lab Services	1. Maintain procedures for site lab services. 2. Manage lab compliance program (QA). 3. Maintain FACTS chain of custody and sample disposition program. 4. Package (drums) excess samples and sample analysis waste. 4. Provide lab services and coordination with projects.	Responsible for #1-4 Lab Mgr. Lab Tech. Chemist Responsible for #5 Lab Mgr. Lab Tech. Chemist	C C C M M M
Support Organizations:			
Administration	None.	N/A	N/A
Analytical Lab Services	See above.	N/A	N/A
Contracts & Acquisition (Prime Contract)	None.	N/A	N/A
Cost & Schedule Improvements	None.	N/A	N/A
Cultural Resources	None.	N/A	N/A
Doc. Control/Procedure Mgmt.	None.	N/A	N/A
Emergency, Security & Safeguards	None.	N/A	N/A
Engineering Services	None.	N/A	N/A
Environmental Compliance	None.	N/A	N/A
Environmental Monitoring	None.	N/A	N/A
ES&H/RAD Operations	None.	N/A	N/A
ES&H/RAD Programmatic	None.	N/A	N/A
Field Procurement	None.	N/A	N/A
Finance	None.	N/A	N/A
Human Resources	None.	N/A	N/A
Industrial Relations	None.	N/A	N/A
Information Management	None.	N/A	N/A

* P = Assigned to Project

M = Matrixed to Project or Department

C = Centralized in Functional Department

FUNCTIONAL RESPONSIBILITIES

Analytical Lab Services

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Infrastructure Services <ul style="list-style-type: none"> • Facility Engineering • Facility Services • Maintenance • Transportation • Utilities 	Request Lab Services for Chemical Management Program as needed.	1. Lab Tech 2. Chemist	M M
Internal Audit	None.	N/A	N/A
Legal Affairs	None.	N/A	N/A
Materials Control & Account.	None.	N/A	N/A
Operations Assurance	None.	N/A	N/A
Project Controls	None.	N/A	N/A
Property Management	None.	N/A	N/A
Public Affairs	None.	N/A	N/A
QA Programmatic	None.	N/A	N/A
QC Operations	None.	N/A	N/A
Records Management	None.	N/A	N/A
Sample Data Management	None.	N/A	N/A
Site Closure Planning & Integration	None.	N/A	N/A
Stewardship Planning	None.	N/A	N/A
Technology Program	None.	N/A	N/A
Training	None.	N/A	N/A
WAO	None.	N/A	N/A
Workforce Restructuring	None.	N/A	N/A
Construction Support Contractor	Request lab sample services as needed.	1. Lab Tech 2. Chemist	M
Waste Pits	Subcontractor performs lab services.	N/A	N/A
D&D	Request lab sample services as needed.	1. Lab Tech 2. Chemist	M
Soils/OSDF	Request lab sample services as needed.	"	M

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FUNCTIONAL RESPONSIBILITIES

Analytical Lab Services

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Silos	Request lab sample services as needed.	"	M
Aquifer Restoration Project	Request lab sample services as needed.	"	M
Waste Generator Services: LLW & Waste Treatment	1. Request lab sample services as needed. 2. Pick up packaged drums of excess samples and sample analysis waste. 3. Disposition of excess samples and sample analysis waste.	"	1. M 2. C in WGS 3. C in WGS
Nuclear Material Disposition	Request lab sample services as needed.	"	M

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FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Analytical Laboratory Services
Functional Area Manager: Amy Meyer
Project/Program: Aquifer Restoration Project

I. List scope provided within your own central/core group's budgeted scope.

- Preventative maintenance/calibration activities of laboratory instrumentation
- Chemical tracking within ALS
- Laboratory materials / instrumentation
- FACTS administration
- Safety inspections (SAA, safety shower/eye wash, respirator)
- Equipment disposition activities
- Chemical disposition activities including radiological standards
- Wage support to ALS (laborer, hazwat, MVO)
- Record management activities
- Procedure processing
- Procedure/method research and development
- Analyst certification on lab methods
- Lab procedure training
- Lab generated waste processing
- Disposition of sample residue to WGS
- Site and ALS compliance training
- Meeting attendance (staff, safety)
- Performance evaluation sample activities
- QA/QC and environmental regulatory issues (pertaining to the lab)
- Audits of the laboratory
- All training, and travel required to perform this scope
- Support function (project controls, QA, H/S, RAD, hazwat, etc.)
- Lab management oversight & strategic planning
- Drumming of excess (surplus) samples by ALS.

II. List scope/expertise administratively provided to the site that is costed to the "Project".

- Centralized function – Budget by Analytical Laboratory Services organization. Need to communicate with projects to identify expectations. Projects may budget for special services as needed.
- Projects budget for requested lab sample services, which consists of the following (\$55.00 per sample):
 - sample receipt
 - sample/analysis information input into FACTS
 - sample analysis (radiochemical, inorganic, metals, asbestos, limited organics) on air, water, soil, solids and other media
 - sample shipment to offsite laboratories
 - ALS RCT support during sample analysis
 - analytical expertise consultation
 - data package preparation/compilation
- WGS budgets for picking up drummed samples and disposition of same.

FUNCTIONAL RESPONSIBILITIES

Construction Support Contractor (included in Maintenance Support)

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Construction Support Contractor	1. Provide oversight of Construction Support Contractor. 2. Provide planning of construction work performed by Construction Support Contractor. 3. Provide interface with Fluor Fernald support organizations for work performance by Construction Support contractor. 4. Services performed by Construction Support Contractor	Const. Mgr. Const. Eng. Const. Coord. Craft Supervisor & Craft	 C C C M to projects
Support Organizations:			
Administration	Request construction services as needed.	"	M
Analytical Lab Services	Request construction services as needed.	Construction Support Contractor	M
Contracts & Acquisition (Prime Contract)	Request construction services as needed.	Construction Support Contractor	M
Cost & Schedule Improvements	Request construction services as needed.	"	M
Cultural Resources	Request construction services as needed.	"	
Doc. Control / Procedure Mgmt.	Request construction services as needed.	"	M
Emergency, Security & Safeguards	Request construction services as needed.	"	M
Engineering Services	Request construction services as needed.	"	M
Environmental Compliance	Request construction services as needed.	"	M
Environmental Monitoring	Request construction services as needed.	"	M
ES&H/RAD Operations	Request construction services as needed.	"	M
ES&H/RAD Programmatic	Request construction services as needed.	"	M
Field Procurement	Request construction services as needed.	"	M
Finance	Request construction services as needed.	"	M
Human Resources	Request construction services as needed.	"	M
Industrial Relations	Request construction services as needed.	"	M
Information Management	Request construction services as needed.	"	M

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FUNCTIONAL RESPONSIBILITIES

Construction Support Contractor (included in Maintenance Support)

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Infrastructure Services <ul style="list-style-type: none"> • Facility Engineering • Facility Services • Maintenance • Transportation • Utilities 	Request construction services as needed.	"	M
Internal Audit	Request construction services as needed.	"	M
Legal Affairs	Request construction services as needed.	"	M
Materials Control & Account.	Request construction services as needed.	"	M
Operations Assurance	Request construction services as needed.	"	M
Project Controls	Request construction services as needed.	"	M
Property Management	Request construction services as needed.	"	M
Public Affairs	Request construction services as needed.	"	M
QA Programmatic	Request construction services as needed.	"	M
QC Operations	Request construction services as needed.	"	M
Records Management	Request construction services as needed.	"	M
Sample Data Management	Request construction services as needed.	"	M
Site Closure Planning & Integration	Request construction services as needed.	"	M
Stewardship Planning	Request construction services as needed.	"	M
Technology Program	Request construction services as needed.	"	M
Training	Request construction services as needed.	"	M
WAO	Request construction services as needed.	"	M
Workforce Restructuring	Request construction services as needed.	"	M
Construction Support Contractor	Request construction services as needed.	"	M
Waste Pits	Request construction services as needed.	"	M
D&D	Request construction services as needed.	"	M

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FUNCTIONAL RESPONSIBILITIES

Construction Support Contractor (included in Maintenance Support)

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Soils/OSDF	Request construction services as needed.	"	M
Silos	Request construction services as needed.	"	M
Aquifer Restoration Project	Request construction services as needed.	"	M
Waste Generator Services: LLW & Waste Treatment	Request construction services as needed.	"	M
Nuclear Material Disposition	Request construction services as needed.	Construction Support Contractor	M

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FUNCTIONAL RESPONSIBILITIES

Cost & Schedule Improvements

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Cost & Schedule Improvements	1. Review programs and procedure for elimination of activities. 2. Ensure site activities that are not required are eliminated. 3. Perform special administrative functions that are not assigned to a Support organization as required.	N/A	C
Support Organizations:			
Administration	Provide information and interact with Cost & Schedule Improvement Team as required.		
Analytical Lab Services	"	N/A	N/A
Contracts & Acquisition (Prime Contract)	"	N/A	N/A
Cost & Schedule Improvements	See above.	N/A	N/A
Cultural Resources	"	N/A	N/A
Doc. Control/Procedure Mgmt.	"	N/A	N/A
Emergency, Security and Safeguards	"	N/A	N/A
Engineering Services	"	N/A	N/A
Environmental Compliance	"	N/A	N/A
Environmental Monitoring	"	N/A	N/A
ES&H/RAD Operations	"	N/A	N/A
ES&H/RAD Programmatic	"	N/A	N/A
Field Procurement	"	N/A	N/A
Finance	"	N/A	N/A
Human Resources	"	N/A	N/A
Industrial Relations	"	N/A	N/A
Information Management	"	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

Cost & Schedule Improvements

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Infrastructure Services <ul style="list-style-type: none"> • Facility Engineering • Facility Services • Maintenance • Transportation • Utilities 	Provide information and interact with Cost & Schedule Improvement Team as required.	N/A	N/A
Internal Audit	"	"	N/A
Legal Affairs	"	"	N/A
Materials Control & Account.	"	"	N/A
Operations Assurance	"	"	N/A
Project Controls	"	"	N/A
Property Management	"	"	N/A
Public Affairs	"	"	N/A
QA Programmatic	"	"	N/A
QC Operations	"	"	N/A
Records Management	"	"	N/A
Sample Data Management	"	"	N/A
Site Closure Planning & Integration	"	"	N/A
Stewardship Planning	"	"	N/A
Technology Program	"	"	N/A
Training	"	"	N/A
WAO	"	"	N/A
Workforce Restructuring	"	"	N/A
Construction Support Contractor	"	"	N/A
Waste Pits	"	"	N/A
D&D	"	"	N/A

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FUNCTIONAL RESPONSIBILITIES

Cost & Schedule Improvements

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Soils/OSDF	"	N/A	N/A
Silos	"	N/A	N/A
Aquifer Restoration Project	"	N/A	N/A
Waste Generator Services: LLW & Waste Treatment	"	N/A	N/A
Nuclear Material Disposition	"	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

Cultural Resources (included in Stewardship Planning)

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Cultural Resources	1. Cultural Resources Policy and Procedure Management 2. Coordination HABS/HAER investigation for remediation sites 3. Respond to unexpected cultural discoveries 4. Interface with government agencies on cultural resource matters 5. Perform pre-excavation investigation	1. Env. Scientist Mgr. 2. Env. Scientist	C C
Support Organizations:			
Administration	None.	N/A	N/A
Analytical Lab Services	None.	N/A	N/A
Contracts & Acquisition (Prime Contract)	None.	N/A	N/A
Cost & Schedule Improvements	None.	N/A	N/A
Cultural Resources	See above.	N/A	N/A
Doc. Control / Procedure Mgmt.	None.	N/A	N/A
Emergency, Security & Safeguards	None.	N/A	N/A
Engineering Services	None.	N/A	N/A
Environmental Compliance	None.	N/A	N/A
Environmental Monitoring	None.	N/A	N/A
ES&H/RAD Operations	None.	N/A	N/A
ES&H/RAD Programmatic	None.	N/A	N/A
Field Procurement	None.	N/A	N/A
Finance	None.	N/A	N/A
Human Resources	None.	N/A	N/A
Industrial Relations	None.	N/A	N/A
Information Management	None.	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

Cultural Resources (included in Stewardship Planning)

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Infrastructure Services <ul style="list-style-type: none"> • Facility Engineering • Facility Services • Maintenance • Transportation • Utilities 	None.	N/A	N/A
Internal Audit	None.	N/A	N/A
Legal Affairs	None.	N/A	N/A
Materials Control & Account.	None.	N/A	N/A
Operations Assurance	None.	N/A	N/A
Project Controls	None.	N/A	N/A
Property Management	None.	N/A	N/A
Public Affairs	None.	N/A	N/A
QA Programmatic	None.	N/A	N/A
QC Operations	None.	N/A	N/A
Records Management	None.	N/A	N/A
Sample Data Management	None.	N/A	N/A
Site Closure Planning & Integration	None.	N/A	N/A
Stewardship Planning	None.	N/A	N/A
Technology Program	None.	N/A	N/A
Training	None.	N/A	N/A
WAO	None.	N/A	N/A
Workforce Restructuring	None.	N/A	N/A
Construction Support Contractor	None.	N/A	N/A
Waste Pits	None.	N/A	N/A
D&D	None.	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

Cultural Resources (included in Stewardship Planning)

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Soils/OSDF	None.	N/A	N/A
Silos	None.	N/A	N/A
Aquifer Restoration Project	None.	N/A	N/A
Waste Generator Services: LLW & Waste Treatment	None.	N/A	N/A
Nuclear Material Disposition	None.	N/A	N/A

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FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Cultural Resources
Functional Area Manager: Joe Schomaker
Project/Program: Closure Project Management

I. List scope provided within your own central/core group's budgeted scope.

- Annually revise and update Cultural Resource Management Plan
- Compliance with Memorandum of Agreements and Programmatic Agreements
- Manage Cultural Resource Subcontractor
- Respond to Unexpected Discoveries of Cultural Resources
- Prepare annual reports to the State Historic Preservation Office
- Maintain Cultural Resource archive/artifacts
- Conduct Cultural Resource training
- Future Land Use
- Indian affairs
- Cultural Resource procedure writing
- Preserving and Collecting Cold War Artifacts
- Writing CRM scopes of work
- Review and coordinate changes in Cultural Resource laws
- Interface with external and internal organizations
- Coordinate all repatriation efforts of Native American remains
- Write Research Designs
- All training, travel and materials required to perform this scope
- Community Outreach, Presentations and Briefings
- Department of Interior Report to Congress
- Historic Documentation of Facility
- Environmental Assessment of CRM
- Site Environmental Report – CRM Section
- Cultural Resource Site Wide Compliance with Historic Preservation Law
- Phase I Archaeological Survey
- Phase II Archaeological Investigation
- Phase III Data Recovery
- Research Design
- Oversee Cultural Field Work
- Conduct project specific HABS/HAER investigations

II. List scope/expertise administratively provided to the site that is costed to the "Project".

- Centralized function – Budget by Cultural Resources organization.

III. List scope/expertise provided to the site that is managed by and costed to the "Project".

- None.

FUNCTIONAL RESPONSIBILITIES

Document Control/Procedure Management

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Document Control/Procedure Management	1. Administer and manage the Fluor Fernald Document Program. 2. Coordinates the compliance reviews, issuance of functional area documents. 3. Issue and manage controlled documents for the site. 4. Manage Fluor Fernald procedure administrative program.	Information Records Mgr. Information Records Tech	C C
Support Organizations:			
Administration	Provide information and interact with Document Control on procedures and documents as required.	N/A	N/A
Analytical Lab Services	"	N/A	N/A
Contracts & Acquisition (Prime Contract)	"	N/A	N/A
Cost & Schedule Improvements	"	N/A	N/A
Cultural Resources	"	N/A	N/A
Doc. Control / Procedure Mgmt.	See above.	N/A	N/A
Emergency Security & Safeguards	"	N/A	N/A
Engineering Services	"	N/A	N/A
Environmental Compliance	"	N/A	N/A
Environmental Monitoring	"	N/A	N/A
ES&H/RAD Operations	"	N/A	N/A
ES&H/RAD Programmatic	"	N/A	N/A
Field Procurement	"	N/A	N/A
Finance	"	N/A	N/A
Human Resources	"	N/A	N/A
Industrial Relations	"	N/A	N/A
Information Management	"	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

Document Control/Procedure Management

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Infrastructure Services <ul style="list-style-type: none"> Facility Engineering Facility Services Maintenance Transportation Utilities 	Provide information and interact with Document Control on procedures and documents as required.	N/A	N/A
Internal Audit	"	N/A	N/A
Legal Affairs	"	N/A	N/A
Materials Control & Account.	"	N/A	N/A
Operations Assurance	"	N/A	N/A
Project Controls	"	N/A	N/A
Property Management	"	N/A	N/A
Public Affairs	"	N/A	N/A
QA Programmatic	"	N/A	N/A
QC Operations	"	N/A	N/A
Records Management	"	N/A	N/A
Sample Data Management	"	N/A	N/A
Site Closure Planning & Integration	"	N/A	N/A
Stewardship Planning	"	N/A	N/A
Technology Program	"	N/A	N/A
Training	"	N/A	N/A
WAO	"	N/A	N/A
Workforce Restructuring	"	N/A	N/A
Construction Support: Contractor	"	N/A	N/A
Waste Pits	"	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

Document Control/Procedure Management

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
D&D	"	N/A	N/A
Soils/OSDF	Provide information and interact with Document Control on procedures and documents as required.	N/A	N/A
Silos	"	N/A	N/A
Aquifer Restoration Project	"	N/A	N/A
Waste Generator Services: LLW & Water Treatment	"	N/A	N/A
Nuclear Material Disposition	"	N/A	N/A

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FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Document Control/Procedure Administration
Functional Area Manager: Luther Brown
Project/Program: Administration

- I. List scope provided within your own central/core group's budgeted scope.**
 - Administer and manage the Fluor Fernald and Division Document Programs, and the Fluor Fernald Forms Program.
 - Coordinates compliance reviews, and issuance of functional area documents.
 - Issue and manage controlled documents for the site.
 - Provide technical writing services to all Fluor Fernald organizations.
 - Review of current site/division procedures.
 - All training, travel, and materials required to perform this scope.
- II. List scope/expertise administratively provided to the site that is costed to the "Project".**
 - Centralized function – Budget by Document Control/Procedure Management organization. Need to communicate with projects to identify expectations. Projects may budget for special services as needed.
- III. List scope/expertise provided to the site that is managed by and costed to the "Project".**
 - None.

FUNCTIONAL RESPONSIBILITIES

Engineering Services

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Engineering Services	<ol style="list-style-type: none"> 1. Provides planning, integration, implementation and oversight of configuration management and engineering design functional areas. 2. Conducts special investigations, reports and consultations to projects 3. Provide CADD/GIS services to projects and site services 4. Supports the technical Review Board and ALARA Committee 5. Develops and coordinate functional area procedures 6. Supports facility startup, and turnover plans, system operational testing, operations readiness support, and turnover packages 	Eng. Mgr. Discipline <u>Engineers</u> <ul style="list-style-type: none"> • Civil • Electrical • Piping / Mech • Engineer Tech • General Engineer • Drafter / CAD Operator • Engineers • CAD Operator 	C C (for items 1, 2, 4 & 5) M (for items 3, & 6)
Support Organizations:			
Administration	<ol style="list-style-type: none"> 1. Provide information and interact with engineering as requested. 2. Request engineering services when needed from Site Engineering 	<ul style="list-style-type: none"> • Engineers • CAD Operator 	M M
Analytical Lab Services	"	"	"
Contracts & Acquisition (Prime Contract)	"	"	"
Cost & Schedule Improv. Team	"	"	"
Cultural Resources	"	"	"
Doc. Control/Procedure Mgmt.	"	"	"
Emergency, Security & Safeguards	"	"	"
Engineering Services	See above.	N/A	N/A
Environmental Compliance	"	"	"
Environmental Monitoring	"	"	"

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FUNCTIONAL RESPONSIBILITIES

Engineering Services

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
ES&H/RAD Operations	1. Provide information and interact with engineering as requested 2. Request engineering services when needed from Site Engineering	<ul style="list-style-type: none"> Engineers CAD Operator 	M M
ES&H/RAD Programmatic	"	"	"
Field Procurement	"	"	"
Finance	"	"	"
Human Resources	"	"	"
Industrial Relations	"	"	"
Information Management	"	"	"
Infrastructure Services <ul style="list-style-type: none"> Facility Engineering Facility Services Maintenance Transportation Utilities 	"	"	"
Internal Audit	"	"	"
Legal Affairs	"	"	"
Materials Control & Account.	"	"	"
Operations Assurance	"	"	"
Project Controls	"	"	"
Property Management	"	"	"
Public Affairs	"	"	"
QA Programmatic	"	"	"
QC Operations	"	"	"
Records Management	"	"	"
Sample Data Management	"	"	"

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FUNCTIONAL RESPONSIBILITIES

Engineering Services

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Site Closure Planning & Integration	1. Provide information and interact with engineering as requested. 2. Request engineering services when needed from Site Engineering.	<ul style="list-style-type: none"> Engineers CAD Operator 	M M
Stewardship Planning	"	"	"
Technology Program	"	"	"
Training	"	"	"
WAO	"	"	"
Workforce Restructuring	"	"	"
Construction Support Contractor	1. Provide information and interact with engineering as requested. 2. Request engineering service when needed from Site Engineering 3. Project Engineering	<ul style="list-style-type: none"> Engineers CAD Operator Project Engineer 	M M P
Waste Pits	"	"	"
D&D	"	"	"
Soils/OSDF	"	"	"
Silos	"	"	"
Aquifer Restoration Project	"	"	"
Waste Generator Services: LLW & Waste Treatment	"	"	"
Nuclear Material Disposition	"	"	"

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FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Engineering Services
Functional Area Manager: Norm Pennington
Project/Program: Closure Project Management

I. List scope provided within your own central/core group's budgeted scope.

- Provide CADD/GIS services to projects and departments.
- Engineering document tracking and performance reports.
- FA program administration.
- Support procurement activities.
- Program self assessment administration.
- Site engineering support - development of generic specs & drawings (e.g. Graded Approach).
- Coordinate and review all required TQP training.
- Coordinate and issue A-E task order documentation.
- Perform internal quality audits of site activities and procedures
- Development of specifications and drawings per RES.
- Provide CM/ED training to all projects and departments.
- Support project procurement activities e.g. requisition review planning.
- TRB review and oversight assessment participation.
- Administration and verification of all master site plan drawings.
- Supports facility startup and turnover plans, system operational testing, operations readiness support, and turnover packages as requested.
- Interface with external auditing organizations.
- All training, travel, and materials required to perform this scope.
- Coordination of Teaming Partner self perform engineering, except Silos Project

II. List scope/expertise administratively provided to the site that is costed to the "Project".

- Centralized function – Budget by Engineering Services organization including ODCs and materials. Need to communicate with projects to identify expectations. Projects may budget for special services as needed.
- The project will budget labor, for CADD/GIS services as needed.
- The project will budget labor, and special materials, equipment or tools, as needed to support facility startup, and turnover plans, system operational testing, operations readiness support, and turnover packages.
- The project will budget labor for or subcontract costs for development of specifications and drawings per RES.
- The affected project will budget labor or subcontract costs for special TRB reviews or studies

III. List scope/expertise provided to the site that is managed by and costed to the "Project".

- None.

FUNCTIONAL RESPONSIBILITIES

Environmental Compliance

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Environmental Compliance	<ol style="list-style-type: none"> 1. Manages site-wide environmental compliance program. 2. Develops plans and procedures to comply with regulatory requirements. 3. Maintains list of all legally enforceable milestones. 4. Provide expertise to site and DOE on changes to regulatory drivers. 5. Provide environmental audit of projects. 	Regulatory Protection Manager Regulatory Protection Engineers	C C C C
Support Organizations:			
Administration	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Analytical Lab Services	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Contracts & Acquisition (Prime Contract)	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Cost & Schedule Improvements	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Cultural Resources	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Doc. Control/Procedure Mgmt.	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Emergency, Security & Safeguards	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Engineering Services	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Environmental Compliance	See above.	N/A	N/A
Environmental Monitoring	Provide information and interact with Environmental Compliance as requested.	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

Environmental Compliance

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
ES&H/RAD Operations	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
ES&H/RAD Programmatic	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Field Procurement	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Finance	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Human Resource Programs	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Industrial Relations	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Information Management	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Infrastructure Services <ul style="list-style-type: none"> • Facility Engineering • Facility Services • Maintenance • Transportation • Utilities 	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Internal Audit	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Legal Affairs	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Materials Control & Account.	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Operations Assurance	Provide information and interact with Environmental Compliance as requested.	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

Environmental Compliance

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Project Controls	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Property Management	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Public Affairs	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
QA Programmatic	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
QC Operations	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Records Management	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Sample Data Management	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Site Closure Planning & Integration	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Stewardship Planning	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Technology Program	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Training	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
WAO	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Workforce Restructuring	Provide information and interact with Environmental Compliance as requested.	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

Environmental Compliance

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Construction Support Contractor	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Waste Pits	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
D&D	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Soils/OSDF	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Silos	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Aquifer Restoration Project	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Waste Generator Services: LLW & Waste Treatment	Provide information and interact with Environmental Compliance as requested.	N/A	N/A
Nuclear Material Disposition	Provide information and interact with Environmental Compliance as requested.	N/A	N/A

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FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Environmental Compliance
Functional Area Manager: Tim Poff
Project/Program: Environment, Safety, Health and Quality

- I. List scope provided within your own central/core group's budgeted scope.**
 - Identify environmental requirements for site.
 - Develop policy and guidance for complying with environmental regulations, legal agreements, permits, rules, orders, guidance, standards, and best management practices.
 - Review all site procedures, plans, manuals relating to environmental protection.
 - Coordinate reviews and writing of environmental protection procedures.
 - Administer Environmental ALARA program.
 - Track environmental compliance surveillance program.
 - Administer environmental compliance surveillance program.
 - Support procurement activities (RCRA 6002 requirements).
 - Interface with external auditing organizations (DOE, EPA).
 - Provide project support for air, water, waste environmental compliance.
 - Maintain RCRA Operating Record.
 - Provide regulatory update/notification to site via electronic media.
 - All training, travel, and materials required to perform this scope.
 - Obtain and maintain necessary permits for site operations (air, RCRA).
- II. List scope/expertise administratively provided to the site that is costed to the "Project".**
 - Centralized function – Budget by Environmental Compliance organization.
 - Provide field support for compliance with fugitive dust limits/BAT compliance.
 - Provide direct project support not included in compliance oversight.
- III. List scope/expertise provided to the site that is managed by and costed to the "Project".**
 - None.

FUNCTIONAL RESPONSIBILITIES

Environmental Monitoring

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Environmental Monitoring	1. Provide site air monitoring and analytical support	1. Env. Scientist Mgr.	C
	2. Provide reports and interface with DOE regulators	2. Env. Scientist Rep.	C
	3. Maintain IEMP plan – manage IEMP sampling data input	3. Env. Scientist Tech.	C
	4. Provide and manage maintenance and sampling for groundwater monitoring wells, geoprobe		
	5. Manage system and water monitoring programs and perform biota sampling.		
	6. In plant non-waste container sampling		
	7. Soil excavation physical sampling as requested.	1. Env. Scientist Tech	M
	8. Groundwater sampling services as requested.		
Support Organizations:			
Administration	None.	N/A	N/A
Analytical Lab Services	None.	N/A	N/A
Contracts & Acquisition (Prime Contract)	None.	N/A	N/A
Cost & Schedule Improvements	None.	N/A	N/A
Cultural Resources	None.	N/A	N/A
Doc. Control/Procedure Mgmt.	None.	N/A	N/A
Emergency, Security & Safeguards	None.	N/A	N/A
Engineering Services	None.	N/A	N/A
Environmental Compliance	None.	N/A	N/A
Environmental Monitoring	See above.	N/A	N/A
ES&H/RAD Operations	None.	N/A	N/A
ES&H/RAD Programmatic	None.	N/A	N/A
Field Procurement	None.	N/A	N/A
Finance	None.	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

Environmental Monitoring

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Human Resources	None.	N/A	N/A
Industrial Relations	None.	N/A	N/A
Information Management	None.	N/A	N/A
Infrastructure Services	None.	N/A	N/A
<ul style="list-style-type: none"> • Facility Engineering • Facility Services • Maintenance • Transportation • Utilities 			
Internal Audit	None.	N/A	N/A
Legal Affairs	None.	N/A	N/A
Materials Control & Account.	None.	N/A	N/A
Operations Assurance	None.	N/A	N/A
Project Controls	None.	N/A	N/A
Property Management	None.	N/A	N/A
Public Affairs	None.	N/A	N/A
QA Programmatic	None.	N/A	N/A
QC Operations	None.	N/A	N/A
Records Management	None.	N/A	N/A
Sample Data Management	None.	N/A	N/A
Site Closure Planning & Integration	None.	N/A	N/A
Stewardship Planning	None.	N/A	N/A
Technology Program	None.	N/A	N/A
Training	None.	N/A	N/A
WAO	None.	N/A	N/A
Workforce Restructuring	None.	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

Environmental Monitoring

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Construction Support Contractor	Request environmental monitoring as needed.	1. Env. Science Rep. 2. Env. Scientist Tech	M
Waste Pits	Request environmental monitoring as needed.	1. Env. Science Rep. 2. Env. Scientist Tech	M
D&D	Request environmental monitoring as needed.	1. Env. Science Rep. 2. Env. Scientist Tech	M
Soils/OSDF	Request environmental monitoring as needed.	1. Env. Science Rep. 2. Env. Scientist Tech	M
Silos	Request environmental monitoring as needed.	1. Env. Science Rep. 2. Env. Scientist Tech	M
Aquifer Restoration Project	Request environmental monitoring as needed.	1. Env. Science Rep. 2. Env. Scientist Tech	M
Waste Generator Services: LLW & Mixed Waste	None.	N/A	N/A
Nuclear Material Disposition	None.	N/A	N/A

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FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Environmental Monitoring
Functional Area Manager: Mike Frank
Project/Program: Aquifer Restoration Project

I. List scope provided within your own central/core group's budgeted scope.

- The EM Project maintains the personnel and equipment resources for performing environmental sampling of air, soil, groundwater, sediment, biota and miscellaneous media sampling in support of the remediation projects and maintaining compliance with environmental regulations. EM manages an administrative control account scoped to maintain a trained core field sampling, technical and management staff capable of mobilizing quickly to provide environmental monitoring support to the remediation projects. EM also manages control accounts for 1) sitewide air monitoring for compliance purposes including all associated labor, laboratory analysis budget and reporting, 2) for quarterly and annually reporting sitewide environmental data to stakeholders, and 3) well maintenance activities including plugging and abandonment of monitoring wells. The specific scope performed within EM budgets are as follows:

EM TRAINING AND ADMINISTRATIVE

- Management, training and professional development of the core EM technical and administrative project team that performs field sampling, documentation, data review and reporting.
- Development, maintenance and control of EM project procedures governing the collection of environmental samples.
- Developing and conducting procedure training including OJT and field technical evaluations.
- Maintenance, calibration and readiness of EM equipment and supplies (e.g., Geoprobes, groundwater and air instrumentation, etc.)
- Performance of quality assurance and safety self-assessments.
- Provide technical and writing support to development of sampling plans and other reports.
- Obtaining, training and coordinating subcontract (level of effort) personnel to supplement core EM staff to meet demands of peak sampling periods.
- Management and control of the sitewide soil archive inventory.
- Obtaining and maintaining vehicles for field sampling and monitoring activities.
- Primary customers are Aquifer Restoration Project and the Soil Disposal Facility Project.

AIR MONITORING AND IEMP REPORTS

- Supports the performance of all environmental air monitoring driven by DOE Orders and EPA regulations including technical staff, equipment, supplies and data management and reporting.
- Supports the performance of direct rad. measurements, radon, biota, sediment, and stack filter collection for trending and regulatory compliance monitoring.
- Develop and maintain the Integrated Env. Monitoring Plan (IEMP) including annual revisions.
- Prepare quarterly IEMP reports and the Annual Site Environmental Report for distribution to stakeholders including EPAs, DOE and community.

FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Environmental Monitoring
Functional Area Manager: Mike Frank
Project/Program: Aquifer Restoration Project

- Track IEMP analytical data and support transition to internet-based reporting performance of quality assurance and safety self-assessments.
- Supports onsite analytical laboratory labor and offsite lab subcontracts for all IEMP air sample analyses.
- Supports analytical data validation and review of air sample results.

WELL MAINTENANCE AND SURFACE WATER SAMPLING

- Supports the performance of surface water sampling driven by the IEMP and the FEMP NPDES permit.
- Supports the onsite analytical laboratory labor and offsite lab subcontracts for surface water sample analysis.
- Supports the validation and management of the analytical results from surface water samples.
- Supports staff to manage well plugging and abandonment which is performed by a subcontract drilling service company.
- Staff inspects all monitoring wells periodically for environmental integrity.
- Sells are sampled and analysis conducted prior to abandonment.
- Subcontractor costs for maintaining and upkeep on monitoring wells.
- Property access agreements and payments to landowners for sampling of private property wells.

II. List scope/expertise administratively provided to the site that is costed to the "Project".

- A total of 20 FTEs per year; 23,569 hrs. to ARWP and 12,691 hrs. to SDFP.
Activities listed below are to be budgeted by projects:
 - full range of field sampling services for all soil and groundwater remediation projects (primarily ARWP and SDFP)
 - including OSDF-related sampling; also shipment and groundwater samples to offsite labs
 - field analytical screening for soil and groundwater contaminants, flow measurements, camera surveys of wells, etc.
 - technical oversight of subcontractors during well installation or rehabilitation
 - soil classification and documentation of soil borings
 - maintenance of project-specific equipment essential to collection of environmental soil and groundwater data
 - air sampling at project boundaries including personnel, equipment, and data management
 - management and disposition of archive soil samples
 - field data management, review, filing and some database entry
- Other projects must budget for Environmental Monitoring support services as nee

III. List scope/expertise provided to the site that is managed by and costed to the "Project".

- None.

FUNCTIONAL RESPONSIBILITIES

Environmental, Safety and Health/Radiological Control/Safety Analysis

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
ES&H/RAD: (Programmatic) • ES&H/RAD • Programmatic (ES&H/RAD) • Medical / Emergency Services	<ol style="list-style-type: none"> 1. ES&H/RAD Policy and Procedure management. 2. Workers Compensation Program Administration. 3. Interface with DOE for DOE Orders, Ohio, and HQ on site issues. 4. Program audits, trend analysis, site reports. 5. Medical Program Management. 6. Dosimetry Program Management. 7. Nuclear Criticality/Safety Analysis Program. 8. Fire/Safety Inspection. 9. Comm Center Operation. 10. Emergency Services – ERT for off shifts. 11. ISRC Operations. 	<p>S&H Mgr</p> <p>Safety/RAD Eng</p> <p>IH Tech</p> <p>Health Physicist Physician Nurses Health Physicist Tech</p>	C
ES&H/RAD: (Operations)	<ol style="list-style-type: none"> 1. Manage safety inspection and work with projects on safety inspection needs. 2. Matrix full time Safety Insp to projects for audits & surveillance. 3. Matrix full time safety inspectors to project for first line support. 4. Manage RAD Techs and work with project on RAD Tech needs. 5. Matrix RAD technician to projects for first line support. 6. Matrix RAD Engineer to projects for rad specs and interpretation. 	<ol style="list-style-type: none"> 1. Safety & Health Manager 2. Safety Tech 3. Safety Tech 4. RAD Manager 5. RAD Tech 6. RAD Engineer 	<ol style="list-style-type: none"> 1. C 2. M 3. P 4. C (assigned to projects) 5. P (assigned to projects) 6. M
Support Organizations:			
Administration	Department Safety Audit and Surveillance.	Safety Tech	C In ES&H/RAD (Operations) Safety Health
Analytical Lab Services	Department Safety Audit and Surveillance.	"	"

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FUNCTIONAL RESPONSIBILITIES

Environmental, Safety and Health/Radiological Control/Safety Analysis

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Contracts & Acquisition (Prime Contract)	Department Safety Audit and Surveillance.	"	"
Cost & Schedule Improvements	Department Safety Audit and Surveillance.	"	"
Cultural Resources	Department Safety Audit and Surveillance.	"	"
Doc. Control/Procedure Mgmt.	Department Safety Audit and Surveillance.	"	"
Emergency, Security & Safeguards	Department Safety Audit and Surveillance.	"	"
Engineering Services	Department Safety Audit and Surveillance.	"	"
Environmental Compliance	Department Safety Audit and Surveillance.	"	"
Environmental Monitoring	Department Safety Audit and Surveillance.	"	"
ES&H/RAD Operations	See above.	N/A	N/A
ES&H/RAD Programmatic	See above.	N/A	N/A
Finance	Department Safety Audit and Surveillance.	Safety Tech	In ES&H/RAD (Operations) Safety Health C
Human Resources	Department Safety Audit and Surveillance.	"	"
Infrastructure Services <ul style="list-style-type: none"> • Facility Engineering • Facility Services • Maintenance • Transportation • Utilities 	1. Safety first line inspection and support 2. Safety Audits 3. RAD Support	1. Safety Supv & Safety Tech 2. Safety Tech 3. RAD Supv & RAD Tech	1. P 2. M 3. P

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FUNCTIONAL RESPONSIBILITIES

Environmental, Safety and Health/Radiological Control/Safety Analysis

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Internal Audit	Department Safety Audit and Surveillance.	Safety Tech	C In ES&H/RAD (Operations) Safety Health
Lab Services	Department Safety Audit and Surveillance.	"	"
Legal Affairs	Department Safety Audit and Surveillance.	"	"
Materials Control & Account.	Department Safety Audit and Surveillance.	"	"
Office Services	Department Safety Audit and Surveillance.	"	"
Operations Assurance	Department Safety Audit and Surveillance.	"	"
Procurement	Department Safety Audit and Surveillance.	"	"
Project Controls	Department Safety Audit and Surveillance.	"	"
Property Management	Department Safety Audit and Surveillance.	"	"
Public Affairs	Department Safety Audit and Surveillance.	"	"
QA Programmatic	Department Safety Audit and Surveillance.	"	"
QC Operations	Department Safety Audit and Surveillance.	"	"
Records Management	Department Safety Audit and Surveillance.	"	"
Sample Data Management	Department Safety Audit and Surveillance.	"	C In ES&H/RAD (Operations) Safety Health
Security/Emergency Services	Department Safety Audit and Surveillance.	"	"
Site Closure Planning & Integration	Department Safety Audit and Surveillance.	"	C In ES&H/RAD (Operations) Safety Health
Stewardship Planning	Department Safety Audit and Surveillance.	"	"
Technology Program	Department Safety Audit and Surveillance.	"	"
Training	Department Safety Audit and Surveillance.	"	"

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FUNCTIONAL RESPONSIBILITIES

Environmental, Safety and Health/Radiological Control/Safety Analysis

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
WAO	Department Safety Audit and Surveillance.	"	"
Workforce Restructuring	Department Safety Audit and Surveillance.	"	"
Construction Support Contractor	1. Subcontractor and project safety audit and surveillance 2. RAD Support	1. Safety Tech 2. RAD Engineering 3. RAD Supv & RAD Tech	1. M 2. M 3. P
Waste Pits	1. Subcontractor and project safety audit and surveillance 2. RAD Support	"	1. M 2. M 3. P
D&D	"	"	"
Soils/OSDF	1. Subcontractor and project safety audit and surveillance 2. RAD Support	"	"
Silos	1. Project Safety first line inspection and support 2. Project Safety Audits 3. RAD Support	"	"
	1. Subcontractor and project safety audit and surveillance 2. RAD Support	"	"
Aquifer Restoration Project	1. Project Safety first line inspection and support 2. Project Safety Audits 3. RAD Support	"	"
Waste Generator Services: LLW & Waste Treatment	"	"	"
Nuclear Material Disposition	1. Project Safety first line inspection and support 2. Project Safety Audits 3. RAD Support	1. Safety Supv & Safety Tech 2. Safety Tech 3. RAD Supv & RAD Tech 4. Health Physicist	1. P 2. M 3. P 4. P

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FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Radiological Protection Operations
Functional Area Manager: Steve Wentzel
Project/Program: Maintenance and Infrastructure Support

- I. List scope provided within your own central/core group's budgeted scope.**
 - Prepare and maintain Requirements Manual, site procedures, and department procedures that document the site's radiation protection program.
 - Evaluate site radiological activities to ensure compliance with site radiation protection program.
 - Implement PAAA program with respect to 10 CFR 835 "Radiological Protection" requirements.
 - Administer site ALARA program.
 - Implement occupational radon monitoring program.
- II. List scope/expertise administratively provided to the site that is costed to the "Project".**
 - Centralized function – Budget by Radiation Protection organization. Need to communicate with projects to identify expectations. Projects may budget for special services as needed.
- III. List scope/expertise provided to the site that is managed by and costed to the "Project".**
 - None.

FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Medical
Functional Area Manager: Debby Smith
Project/Program: Environment, Safety, Health and Quality

I. List scope provided within your own central/core group's budgeted scope.

- Perform medical evaluations on site population.
- Perform workplace exposure evaluations and medical surveillance as indicated.
- Provide heat stress monitoring upon request from projects.
- Arrange second opinion and off-site evaluations by medical specialists as necessary.
- Provide standard medical treatment and follow-up of occupational injuries.
- Document occupational illnesses.
- Provide physician consult for non-occupational medical complaints.
- Administer flu vaccination program.
- Manage technical aspects of substance abuse testing program.
- Perform quality control and quality assurance.
- Manage medical records (includes data entry and hard copy management).
- Implement fitness/wellness programs and maintain fitness center.
- Provide medical guidance and supplies for the First Responders at off-site locations.
- Administer medical surveillance for DOE Beryllium Program. Includes:
 - identification of beryllium associated workers
 - medical surveillance
 - beryllium LPT testing
 - written medical opinions
 - second physician review and consultations

II. List scope/expertise administratively provided to the site that is costed to the "Project".

- Centralized function – Budget by Medical organization. Need to communicate with projects to identify expectations. Projects may budget for special services as needed.

III. List scope/expertise provided to the site that is managed by and costed to the "Project".

- None.

FUNCTIONAL RESPONSIBILITIES

Finance

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Finance	1. Accounting Policy & Procedure Management 2. Manage general accounting system 3. Manage Payroll & accounts payable system 4. Project Controller 5. Provide Accounting reports 6. Interface with DOE on Cost Accounting functions and reports 7. Provide ACWP information to Project Controls 8. Provide project cost analysis (i.e., General Ledger) 9. Corporate interface	Account Mgr. Accountant/Analyst	C C
Support Organizations:			
Administration	Provide information to finance and accounting on an as needed basis.	N/A	N/A
Analytical Lab Services	Provide information to finance and accounting on an as needed basis.	N/A	N/A
Contracts & Acquisition (Prime Contract)	Provide information to finance and accounting on an as needed basis.	NA	NA
Cost & Schedule Improvements	Provide information to finance and accounting on an as needed basis.	NA	NA
Cultural Resources	Provide information to finance and accounting on an as needed basis.	NA	NA
Doc. Control/Procedure Mgmt.	Provide information to finance and accounting on an as needed basis.	NA	NA
Emergency, Security & Safeguards	Provide information to finance and accounting on an as needed basis.	NA	NA
Engineering Services	Provide information to finance and accounting on an as needed basis.	NA	NA

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FUNCTIONAL RESPONSIBILITIES

Finance

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Environmental Compliance	Provide information to finance and accounting on an as needed basis.	NA	NA
Environmental Monitoring	Provide information to finance and accounting on an as needed basis.	NA	NA
ES&H/RAD Operations	Provide information to finance and accounting on an as needed basis.	NA	NA
ES&H/RAD Programmatic	Provide information to finance and accounting on an as needed basis.	NA	NA
Field Procurement	Provide information to finance and accounting on an as needed basis.	NA	NA
Finance	See above.	N/A	N/A
Human Resources	Provide information to finance and accounting on an as needed basis.	NA	NA
Industrial Relations	Provide information to finance and accounting on an as needed basis.	NA	NA
Information Management	Provide information to finance and accounting on an as needed basis.	NA	NA
Infrastructure Services <ul style="list-style-type: none"> • Facility Engineering • Facility Services • Maintenance • Transportation • Utilities 	Provide information to finance and accounting on an as needed basis.	NA	NA
Internal Audit	Provide information to finance and accounting on an as needed basis.	NA	NA
Legal Affairs	Provide information to finance and accounting on an as needed basis.	NA	NA

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FUNCTIONAL RESPONSIBILITIES

Finance

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Materials Control & Account.	Provide information to finance and accounting on an as needed basis.	NA	NA
Operations Assurance	Provide information to finance and accounting on an as needed basis.	NA	NA
Project Controls	Provide information to finance and accounting on an as needed basis.	NA	NA
Property Management	Provide information to finance and accounting on an as needed basis.	NA	NA
Public Affairs	Provide information to finance and accounting on an as needed basis.	NA	NA
QA Programmatic	Provide information to finance and accounting on an as needed basis.	NA	NA
QC Operations	Provide information to finance and accounting on an as needed basis.	NA	NA
Records Management	Provide information to finance and accounting on an as needed basis.	NA	NA
Sample Data Management	Provide information to finance and accounting on an as needed basis.	NA	NA
Site Closure Planning & Integration	Provide information to finance and accounting on an as needed basis.	NA	NA
Stewardship Planning	Provide information to finance and accounting on an as needed basis.	NA	NA
Technology Program	Provide information to finance and accounting on an as needed basis.	NA	NA
Training	Provide information to finance and accounting on an as needed basis.	NA	NA

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FUNCTIONAL RESPONSIBILITIES

Finance

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
WAO	Provide information to finance and accounting on an as needed basis.	NA	NA
Workforce Restructuring	Provide information to finance and accounting on an as needed basis.	NA	NA
Construction Support Contractor	Provide information to finance and accounting on an as needed basis.	NA	NA
Waste Pits	Provide information to finance and accounting on an as needed basis.	NA	NA
D&D	Provide information to finance and accounting on an as needed basis.	NA	NA
Soils/OSDF	Provide information to finance and accounting on an as needed basis.	NA	NA
Silos	Provide information to finance and accounting on an as needed basis.	NA	NA
Aquifer Restoration Project	Provide information to finance and accounting on an as needed basis.	NA	NA
Waste Generator Services: LLW & Waste Treatment	Provide information to finance and accounting on an as needed basis.	NA	NA
Nuclear Material Disposition	Provide information to finance and accounting on an as needed basis.	NA	NA

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FUNCTIONAL RESPONSIBILITIES

Human Resource Programs

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Human Resource Programs	1. HR Policy & Procedure Management 2. Administer HR Program 3. Administer Employee Relations Program (EEO, ADA, AA etc) 4. Manage College Programs 5. Manage Benefits and Compensation Programs 6. Interface with DOE on HR Issues	HR Manager HR Rep	C C
Support Organizations:			
Administration	1. Perform Performance Review on Assigned Personnel 2. Input to compensation programs for assigned personnel 3. Request new hire resources from HR 4. Coordinate personnel issues with HR	Support Org. staff (Responsible for coordination with the appropriate manager within the specific organization)	P
Analytical Lab Services	"	"	"
Contracts & Acquisition (Prime Contract)	"	"	"
Cost & Schedule Improvements	"	"	"
Cultural Resources	"	"	"
Doc. Control/Procedure Mgmt.	"	"	"
Emergency, Security & Safeguards	"	"	"
Engineering Services	"	"	"
Environmental Compliance	"	"	"
Environmental Monitoring	"	"	"
ES&H/RAD Operations	"	"	"
ES&H/RAD Programmatic	"	"	"
Field Procurement	"	"	"
Finance	"	"	"

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FUNCTIONAL RESPONSIBILITIES

Human Resource Programs

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Human Resources	See above.	N/A	N/A
Industrial Relations	1. Perform Performance Review on Assigned Personnel 2. Input to compensation programs for assigned personnel 3. Request new hire resources from HR 4. Coordinate personnel issues with HR	Support Org. staff (Responsible for coordination with the appropriate manager within the specific organization)	P
Information Management	1. Perform Performance Review on Assigned Personnel 2. Input to compensation programs for assigned personnel 3. Request new hire resources from HR 4. Coordinate personnel issues with HR	Support Org. staff (Responsible for coordination with the appropriate manager within the specific organization)	P
Infrastructure Services <ul style="list-style-type: none"> • Facility Engineering • Facility Services • Maintenance • Transportation • Utilities 	"	"	"
Internal Audit	"	"	"
Legal Affairs	"	"	"
Materials Control & Account.	"	"	"
Operations Assurance	"	"	"
Project Controls	"	"	"
Property Management	"	"	"
Public Affairs	"	"	"
QA Programmatic	"	"	"
QC Operations	"	"	"

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FUNCTIONAL RESPONSIBILITIES

Human Resource Programs

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Records Management	"	"	"
Sample Data Management	"	"	"
Site Closure Planning & Integration	"	"	"
Stewardship Planning	"	"	"
Technology Program	"	"	"
Training	1. Perform Performance Review on Assigned Personnel 2. Input to compensation programs for assigned personnel 3. Request new hire resources from HR 4. Coordinate personnel issues with HR	Support Org. staff (Responsible for coordination with the appropriate manager within the specific organization)	P
WAO	"	"	"
Workforce Restructuring	"	"	"
Construction Support: Contractor	"	"	"
Waste Pits	"	Project Org. staff (Responsible for coordination with the appropriate manager within the specific organization)	"
D&D	"	"	"
Waste Management Soils/OSDF	"	"	"
Silos	"	"	"

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FUNCTIONAL RESPONSIBILITIES

Human Resource Programs

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Aquifer Restoration Project	"	"	"
Waste Generator Services: LLW & Waste Treatment	"	"	"
Nuclear Material Disposition	"	"	"

* P = Assigned to Project
M = Matrixed to Project or Department
C = Centralized in Functional Department

FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Human Resources/Work Force Restructuring
Functional Area Manager: Paul Mohr
Project/Program: Administration

I. List scope provided within your own central/core group's budgeted scope.

HUMAN RESOURCES BENEFITS AND RECORDS ADMINISTRATION

- Maintains employees records, verification of employment, home loan verifications, maintains HR database and software/hardware support. HR IPEx support, HR report production, HR systems integration, leave-of-absence tracking, unemployment insurance processing and service award program. Includes benefits accounting, benefits surveys COBRA (outsourcing), Dependent Care Spending Account, Employee Assistance Plan management, long term disability, medical, dental and life insurance, new employee orientation, pension plan administration, retirements, Savings Plan 401K, short term disability, (outsourcing), clearance process administration, employment testing, non-exempt, exempt, and wage recruiting and hiring, resume retrieval, and orientation.

TOTAL COMPENSATION

- Ensures compliance with applicable laws, regulations, and DOE orders; establishes and interprets company policies/guidelines relating to compensation and incentive programs; participates in and analyzes salary/wage surveys to determine market competitiveness; assures that the internal career bands are competitive based on structural changes, as needed; communicates and provides to team coaches/leaders equitable internal pay rates and competitive total cash market data where appropriate; acts a consultant for the Fluor Fernald Compensation Team for advising and monitoring changes incorporated into salary administration program and for training regarding salary administration and incentive awards administration. Processes and administers salary offers, (merit, promotion, and equity), salary reports, teaming partner salary program and benefits administration, wage/salary surveys, salary surveys, salary planning and compensation guidelines.

PROFESSIONAL AND CAREER DEVELOPMENT

- Employee Development Center Administration, interview counseling, job development, performance assessment, ranking process, supervisor/manager training, tuition reimbursement, exit interviews, summer internship program, applicant flow, college programs, inroads program, intern/co-op program administration, HBCU Program and manpower planning. Establishment and maintenance of a career development center(s) to support employees in their internal and external career transition. This includes, but is not limited to, resources, equipment, supplies, and staffing expenses. Provide all forms of transition training and counseling whether outplacement, retirement, education, entrepreneurial endeavors, or other options selected by employees. Provide on-site and local recruitment and transition assistance as required. Provide support to DOE in restructuring activities including, but not limited to, updating the workforce restructuring plan and providing activity and cost reports as required or requested. Also

FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Human Resources/Work Force Restructuring
Functional Area Manager: Paul Mohr
Project/Program: Administration

includes efforts associated with the "Transition Initiative" which goes beyond RIF driven initiatives. This aspect serves employees who, although not yet identified for separation, seek career counseling whether site related or outside of the FEMP. Includes costs for retraining opportunities provided to employees affected by reductions under 3161 or who may be affected by a reduction at sometime in the future. Retraining should be designed to qualify trainees for available job openings on site and may include training courses offered on and off company time, and delivered through community colleges, universities, or private vendors as well as contracted services. Publicly funded programs should be utilized whenever possible.

WORKFORCE RESTRUCTURING

- Includes routine Workforce Planning and administration of Voluntary and Involuntary Separation Programs. Perform as Stakeholder Liaison (CRO) and Liaison with Washington, DOE Office (Headquarters) and other DOE offices/sites as appropriate regarding Workforce Restructuring activities. Design, development and implementation of policies and procedures related to restructuring issues and integration of restructuring programs with the Career Development Center (CDC). Provides responses to DOE and IG inquiries regarding Workforce Restructuring activities and annual reporting information, Perform management and tracking of Workforce Restructuring records and historical information. Act as Liaison with internal customers in managing and communication of restructuring activities.

RESOURCE MANAGEMENT AND POLICY DEVELOPMENT

- Responsible for management, administration, and development of subcontracted workforce. Includes all staffing actions pursuant to the Staff Augmentation subcontracts, professional services subcontract (BOA's), clerical services subcontracts (BOA's), individual subcontracts, and identification of specific (non-personnel services) , contracting opportunities. Includes all records, and supporting documentation relative to these actions.
- Develops, maintains, and administers the Subcontractor Database System (SDS) that is designed to track subcontractor personnel usage and associated costs at the project/program, department, and individual level and to provide verification, approval, and reconciliation of subcontractor invoices.
- Responsible for management and administration of Teaming Partner personnel. Develops, maintains, and administers Teaming Partner database that tracks Teaming Partner personnel utilization, supporting records, and associated costs, teaming partner relocation, short-term assignments, teaming partner request for service, business trips, records.
- Management of the Accrual Cost Tracking (ACT) database which enables customers sitewide to obtain subcontractual accrual and actual charge account information directly from Functional Area Managers/IPEX.

FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Human Resources/Work Force Restructuring
Functional Area Manager: Paul Mohr
Project/Program: Administration

- Manages and administers the Staff Augmentation Program and acts as customer - subcontractor interface to obtain the services of qualified individuals including identification, interview, qualification, and selection.
- Serves as primary point-of-contact and interface with the Client (DOE Contracting Officer and DOE COR) for Human Resource administration, matters, and issues. Provide all appropriate support to the Client. Support HR in addressing, negotiating, and resolving external audits, inspections, requests for information, and reviews including, Cost Incurred Audits, GAO, DCAA IG, FD, etc. Resolve issues relating to the Service Contract Act wage determination.

II. List scope/expertise administratively provided to the site that is costed to the "Project".

- Centralized function – Budget by Human Resources organization. Need to communicate with projects to identify expectations. Projects may budget for special services as needed.
- HR Generalists needs to be budgeted by the projects they are matrixed to.

III. List scope/expertise provided to the site that is managed by and costed to the "Project".

- None.

FUNCTIONAL RESPONSIBILITIES

Industrial Relations

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Industrial Relations	1. Manage/Administration of Labor Agreements 2. Interface with DOE on labor relations issues 3. Conduct Labor Contract negotiations 4. Manage IR Policy and Procedures 5. Lead on all labor issues	IR Manager IR Rep	C C
Support Organizations:			
Administration	Provide information and assist IR on labor matters as required.	NA	NA
Analytical Lab Services	Provide information and assist IR on labor matters as required.	NA	NA
Contracts & Acquisition (Prime Contract)	Provide information and assist IR on labor matters as required.	NA	NA
Cost & Schedule Improvements	Provide information and assist IR on labor matters as required.	NA	NA
Cultural Resources	Provide information and assist IR on labor matters as required.	NA	NA
Doc. Control/Procedure Mgmt.	Provide information and assist IR on labor matters as required.	NA	NA
Emergency, Security & Safeguards	Provide information and assist IR on labor matters as required.	NA	NA
Engineering Services	Provide information and assist IR on labor matters as required.	NA	NA
Environmental Compliance	Provide information and assist IR on labor matters as required.	NA	NA
Environmental Monitoring	Provide information and assist IR on labor matters as required.	NA	NA
ES&H/RAD Operations	Provide information and assist IR on labor matters as required.	NA	NA
ES&H/RAD Programmatic	Provide information and assist IR on labor matters as required.	NA	NA
Field Procurement	Provide information and assist IR on labor matters as required.	NA	NA
Finance	Provide information and assist IR on labor matters as required.	NA	NA
Human Resources	Provide information and assist IR on labor matters as required.	NA	NA
Industrial Relations	See above.	N/A	N/A
Information Management	Provide information and assist IR on labor matters as required.	NA	NA

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FUNCTIONAL RESPONSIBILITIES

Industrial Relations

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Infrastructure Services <ul style="list-style-type: none"> • Facility Engineering • Facility Services • Maintenance • Transportation • Utilities 	Provide information and assist IR on labor matters as required.	NA	NA
Internal Audit	Provide information and assist IR on labor matters as required.	NA	NA
Legal Affairs	Provide information and assist IR on labor matters as required.	NA	NA
Materials Control & Account.	Provide information and assist IR on labor matters as required.	NA	NA
Operations Assurance	Provide information and assist IR on labor matters as required.	NA	NA
Project Controls	Provide information and assist IR on labor matters as required.	NA	NA
Property Management	Provide information and assist IR on labor matters as required.	NA	NA
Public Affairs	Provide information and assist IR on labor matters as required.	NA	NA
QA Programmatic	Provide information and assist IR on labor matters as required.	NA	NA
QC Operations	Provide information and assist IR on labor matters as required.	NA	NA
Records Management	Provide information and assist IR on labor matters as required.	NA	NA
Sample Data Management	Provide information and assist IR on labor matters as required.	NA	NA
Site Closure Planning & Integration	Provide information and assist IR on labor matters as required.	NA	NA
Stewardship Planning	Provide information and assist IR on labor matters as required.	NA	NA
Technology Program	Provide information and assist IR on labor matters as required.	NA	NA
Training	Provide information and assist IR on labor matters as required.	NA	NA
WAO	Provide information and assist IR on labor matters as required.	NA	NA
Workforce Restructuring	Provide information and assist IR on labor matters as required.	NA	NA
Construction Support Contractor	Provide information and assist IR on labor matters as required.	NA	NA
Waste Pits	Provide information and assist IR on labor matters as required.	NA	NA
D&D	Provide information and assist IR on labor matters as required.	NA	NA

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FUNCTIONAL RESPONSIBILITIES

Industrial Relations

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Soils/OSDF	Provide information and assist IR on labor matters as required.	NA	NA
Silos	Provide information and assist IR on labor matters as required.	NA	NA
Aquifer Restoration Project	Provide information and assist IR on labor matters as required.	NA	NA
Waste Generator Services: LLW & Waste Treatment	Provide information and assist IR on labor matters as required.	NA	NA
Nuclear Material Disposition	Provide information and assist IR on labor matters as required.	NA	NA

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FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Industrial Relations
Functional Area Manager: Mike Townsend
Project/Program: Office of the President

I. List scope provided within your own central/core group's budgeted scope.

- Industrial Relations is responsible for all matters involving represented employees, subcontractors and subcontract issues, contract administration and interpretation under each of the negotiated labor agreements with the three unions: Fernald Atomic Trades and Labor Council (FATLC), International Guards Union of America (IGUA), and Greater Cincinnati Building and Construction Trades Council (GCBCTC). This workscope consists specifically of the following activities for each:
 - Attend third-step grievance meetings and arbitration meetings.
 - Investigate violations of the Rules of Conduct.
 - Advise and counsel supervisors on contract matters.
 - Attend joint meetings with management and labor to resolve issues.
 - Assist in Substance Abuse Program.
 - Conduct annual wage surveys under Project Labor Agreement.
 - Conduct mediation sessions or other alternative dispute resolution efforts as appropriate.
 - Negotiate and resolve issues filed with UCRC/EEOC/NLRB concerning represented employees.
 - Update corporate Fluor Global Services, Office of the President, an DOE on labor relations on an on-going basis.
 - Conduct contract negotiations.
 - Administer internal processing on filling job vacancies for represented employees which includes posting, preparing correspondence, interviewing, coordinating transfers, tracking seniority, conducting reductions in the workforce.
 - Develop IR procedures
 - Conduct pre-job meetings between the Building Trades and project subcontractors to ensure proper craft assignments.
 - Conduct training for supervisors, stewards and represented employees to include development and presentation.
 - All training, travel, and materials required to perform this scope.

II. List scope/expertise administratively provided to the site that is costed to the "Project".

- Centralized function – Budget by Industrial Relations organization. Need to communicate with projects to identify expectations. Projects may budget for special services as needed.

III. List scope/expertise provided to the site that is managed by and costed to the "Project".

- None.

FUNCTIONAL RESPONSIBILITIES

Information Management

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Information Management	<ol style="list-style-type: none"> 1. IM Policy & Procedure management. 2. Maintain Telecommunication System. 3. System Network Maintenance and Hardware Maintenance. 4. Manager Customer Service. 5. Interface with DOE on IM issues. 6. Application Development & Maintenance. 7. Purchase and maintain 	Info Systems Mgr. Info System Rep Communications Tech	C C C
Support Organizations:			
Administration	<ol style="list-style-type: none"> 1. Request Hardware/Software for Departments as applicable. 2. Request and provide information for special system development. 	NA	NA
Analytical Lab Services	<ol style="list-style-type: none"> 1. Request Hardware/Software for Departments as applicable. 2. Request and provide information for special system development. 	NA	NA
Contracts & Acquisition (Prime Contract)	<ol style="list-style-type: none"> 1. Request Hardware/Software for Departments as applicable. 2. Request and provide information for special system development. 	NA	NA
Cost & Schedule Improvements	<ol style="list-style-type: none"> 1. Request Hardware/Software for Departments as applicable. 2. Request and provide information for special system development. 	NA	NA
Cultural Resources	<ol style="list-style-type: none"> 1. Request Hardware/Software for Departments as applicable. 2. Request and provide information for special system development. 	NA	NA
Doc. Control/Procedure Mgmt.	<ol style="list-style-type: none"> 1. Request Hardware/Software for Departments as applicable. 2. Request and provide information for special system development. 	NA	NA
Emergency, Security & Safeguards	<ol style="list-style-type: none"> 1. Request Hardware/Software for Departments as applicable. 2. Request and provide information for special system development. 	NA	NA

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FUNCTIONAL RESPONSIBILITIES

Information Management

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Engineering Services	1. Request Hardware/Software for Departments as applicable. 2. Request and provide information for special system development.	NA	NA
Environmental Compliance	1. Request Hardware/Software for Departments as applicable. 2. Request and provide information for special system development.	N/A	NA
Environmental Monitoring	1. Request Hardware/Software for Departments as applicable. 2. Request and provide information for special system development.	NA	NA
ES&H/RAD Operations	1. Request Hardware/Software for Departments as applicable. 2. Request and provide information for special system development.	NA	NA
ES&H/RAD Programmatic	1. Request Hardware/Software for Departments as applicable. 2. Request and provide information for special system development.	NA	NA
Field Procurement	1. Request Hardware/Software for Departments as applicable. 2. Request and provide information for special system development.	NA	NA
Finance	1. Request Hardware/Software for Departments as applicable. 2. Request and provide information for special system development.	NA	NA
Human Resources	1. Request Hardware/Software for Departments as applicable. 2. Request and provide information for special system development.	NA	NA
Industrial Relations	1. Request Hardware/Software for Departments as applicable. 2. Request and provide information for special system development.	NA	NA
Information Management	See above.	NA	NA

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FUNCTIONAL RESPONSIBILITIES

Information Management

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Infrastructure Services <ul style="list-style-type: none"> • Facility Engineering • Facility Services • Maintenance • Transportation • Utilities 	1. Request Hardware/Software for Departments as applicable. 2. Request and provide information for special system development.	NA	NA
Internal Audit	"	"	NA
Legal Affairs	"	"	NA
Materials Control & Account.	"	"	NA
Operations Assurance	"	"	NA
Project Controls	"	"	NA
Property Management	"	"	NA
Public Affairs	"	"	NA
QA Programmatic	"	"	NA
QC Operations	"	"	NA
Records Management	"	"	NA
Sample Data Management	"	"	NA
Site Closure Planning & Integration	"	"	NA
Stewardship Planning	"	"	NA
Technology Program	"	"	NA
Training	"	"	NA
WAO	"	"	NA
Workforce Restructuring	"	"	NA
Construction Support Contractor	"	"	NA
Waste Pits	"	"	NA
D&D	"	"	NA
Soils/OSDF	"	"	NA

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FUNCTIONAL RESPONSIBILITIES

Information Management

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Silos	1. Request Hardware/Software for Departments as applicable. 2. Request and provide information for special system development.	NA	NA
Aquifer Restoration Project	" "	NA	NA
Waste Generator Services: LLW & Waste Treatment	" "	NA	NA
Nuclear Material Disposition	" "	NA	NA

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FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Information Management
Functional Area Manager: Jack Gibson
Project/Program: Administration

I. List scope provided within your own central/core group's budgeted scope.

- Maintain Voice and Data Network Infrastructure.
- Set up and maintain Video Teleconferencing rooms.
- Coordinate inside and outside voice and data wiring projects.
- Administer Cincinnati Bell Telecommunications contract.
- Administer contracts for Pagers, Cell Phones and Radios
- Setup and maintain network file servers.
- Establish and support computer hardware and software standards.
- Setup and maintain company application servers.
- Administer company electronic mail software.
- Implement company computer security program.
- Provide programming support for all software applications
- Perform Database Administration on company databases.
- Provide Customer Service Answer Center for addressing user problems (Help Desk).
- Provide hardware and software service for desktop computers.
- Maintain company Intranet and Internet.
- Provide desktop software training.
- Administer all hardware/software maintenance contracts.
- Procure and maintain all project computer hardware and software.

II. List scope/expertise administratively provided to the site that is costed to the "Project".

- Procure and manage the installation of telecommunications services for new facilities (i.e., trailers, off-site locations). Labor and material costs depend on size of project.
- The project/program is responsible for communicating their needs to the Information Management Group, so that adequate funding may be planned for.

III. List scope/expertise provided to the site that is managed by and costed to the "Project".

- None.

FUNCTIONAL RESPONSIBILITIES

Infrastructure Services: Maintenance, Utilities, Transportation, Facility Services, Facility Engineering

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
I. Facility Services	<ol style="list-style-type: none"> 1. Provide housekeeping for buildings. 2. Provide labor service for personnel relocations 3. Manage laundry program. 4. Manage and provide ground maintenance. 5. Maintain SARA 312 inventory system. 6. Maintain site sump 7. Maintain satellite accommodation area 	Responsibilities 1-7 a. Mtce. Mgr. b. Mtce. Rep. c. Mtce. Professional d. FAT&LC	C C C C
II. Maintenance	<ol style="list-style-type: none"> 1. Perform repairs on utility systems and facilities. 2. Manage AWP & CMMS systems. 3. Maintain SMART program. 4. Manage and maintain hoist/site tool program. 5. Provide asbestos abatement/repairs. 6. Provide DOP Testing. 	Responsibilities 1-6 a. Mtce. Mgr. b. Mtce. Rep. c. Mtce. Professional d. FAT& LC	C C C C
III. Transportation	<ol style="list-style-type: none"> 1. Manage vehicle administration program. 2. Manage vehicle repairs and garage. <i>Note:</i> (This does not include off-shift ERT coverage — see Emergency Services) 3. Snow removal. 4. Dust abatement on site roads. 5. Site transportation deliveries including records. (Excludes Stores deliveries which is in Procurement) 	Responsibilities for 1-5 a. Mtce. Mgr. b. Mtce. Professional c. FAT& LC	C C C
IV. Utilities	<ol style="list-style-type: none"> 1. Provide and manage all water systems, gas, electric and air for the site (excludes aquifer system/treatment). 2. Provide technical support to projects for utility relocation and needs. 	1a. Mtce. Manager 1b. Utility Engineer 1c. FAT&LC	C C C M

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FUNCTIONAL RESPONSIBILITIES

Infrastructure Services: Maintenance, Utilities, Transportation, Facility Services, Facility Engineering

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
V. Facility Engineering	1. Provide design and technical support for maintenance and landlord activities.	1. <u>Discipline Engr.</u> • Civil • Electrical • Piping/Mech 2. CADD Operators	C C C C
Support Organizations:			
Administration	Request services as needed. <i>Note: (If special services are needed, the requesting organization needs to plan)</i>	N/A	N/A
Analytical Lab Services	"	N/A	N/A
Contracts & Acquisition (Prime Contract)	"	N/A	N/A
Cost & Schedule Improvements	"	N/A	N/A
Cultural Resources	"	N/A	N/A
Doc. Control/Procedure Mgmt.	"	N/A	N/A
Emergency, Security & Safeguards	"	N/A	N/A
Engineering Services	"	N/A	N/A
Environmental Compliance	"	N/A	N/A
Environmental Monitoring	"	N/A	N/A
ES&H/RAD Operations	"	N/A	N/A
ES&H/RAD Programmatic	"	N/A	N/A
Field Procurement	"	N/A	N/A
Finance	"	N/A	N/A
Human Resources	"	N/A	N/A
Industrial Relations	"	N/A	N/A
Information Management	"	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

Infrastructure Services: Maintenance, Utilities, Transportation, Facility Services, Facility Engineering

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Infrastructure Services <ul style="list-style-type: none"> • Facility Engineering • Facility Services • Maintenance • Transportation • Utilities 	See above.	N/A	N/A
Internal Audit	Request services as needed. <i>Note: (If special services are needed, the requesting organization needs to plan)</i>	N/A	N/A
Legal Affairs	"	N/A	N/A
Materials Control & Account.	"	N/A	N/A
Operations Assurance	Request services as needed. <i>Note: (If special services are needed, the requesting organization needs to plan)</i>	N/A	N/A
Project Controls	"	N/A	N/A
Property Management	"	N/A	N/A
Public Affairs	"	N/A	N/A
QA Programmatic	"	N/A	N/A
QC Operations	"	N/A	N/A
Records Management	"	N/A	N/A
Sample Data Management	"	N/A	N/A
Site Closure Planning & Integration	"	N/A	N/A
Stewardship Planning	"	N/A	N/A
Technology Program	"	N/A	N/A
Training	"	N/A	N/A
WAO	"	N/A	N/A
Workforce Restructuring	"	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

Infrastructure Services: Maintenance, Utilities, Transportation, Facility Services, Facility Engineering

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Construction Support Contractor	1. Request special services as needed. 2. Provide mgt. direction for utility/facility alterations. 3. Request control decon services as needed.	a. Mtce. Supervisor b. Mtce. Rep. c. FAT&LC	M M M
Waste Pits	1. Request special services as needed. 2. Provide mgt. direction for utility/facility alterations. 3. Request control decon services as needed.	a. Mtce. Supervisor b. Mtce. Rep. c. FAT&LC	M M M
D&D	1. Request special services as needed. 2. Provide mgt. direction for utility/facility alterations. 3. Request control decon services as needed.	a. Mtce. Supervisor b. Mtce. Rep. c. FAT&LC	M M M
Soils/OSDF	1. Request special services as needed. 2. Provide mgt. direction for utility/facility alterations. 3. Request control decon services as needed.	a. Mtce. Supervisor b. Mtce. Rep. c. FAT&LC	M M M
Silos	1. Request special services as needed. 2. Provide mgt. direction for utility/facility alterations. 3. Request control decon services as needed.	a. Mtce. Supervisor b. Mtce. Rep. c. FAT&LC	M M M
Aquifer Restoration Project	1. Request special services as needed. 2. Provide mgt. direction for utility/facility alterations. 3. Request control decon services as needed.	a. Mtce. Supervisor b. Mtce. Rep. c. FAT&LC	M M M
Waste Generator Services: LLW & Waste Treatment	1. Request special services as needed. 2. Provide mgt. Direction or utility/facility alterations. 3. Provide control decon services as needed.	a. Mtce. Supervisor b. Mtce. Rep. c. FAT&LC	M M P
Nuclear Material Disposition	1. Request special services as needed. 2. Provide mgt. direction for utility/facility alterations. 3. Request control decon services as needed.	a. Mtce. Supervisor b. Mtce. Rep. c. FAT&LC	M M M

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FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Maintenance
Functional Area Manager: Brian Howard
Project/Program: Maintenance and Infrastructure Support

I. List scope provided within your own central/core group's budgeted scope.

- Manage preventive or corrective (including alterations and fabrications) maintenance services.
- Supervise preventive or corrective (including alterations and fabrications) maintenance services.
- Provide maintenance engineering, planning/estimating, scheduler input on preventive or corrective (including alterations and fabrications) maintenance services.
- Maintain and update the CMMS and AWP systems.
- Prepare Maintenance Work Instructions on equipment for preventive maintenance.
- Equipment identification-replacements and additions to capital projects.
- Prepare maintenance requirements manuals, plans, site-wide, and divisional procedures; and review and update as necessary.
- Work related to unplanned/planned/scheduled "common" equipment and utilities outages.
- Support for facilities inspections, as required.
- Perform asbestos work orders.
- Schedule and supervise asbestos work.
- Calibration of Measuring and Test Equipment (M&TE), Dept. Code 1011.
- Calibration of "calibrated equipment", Dept. Code 1012.
- Write, review, and update Maintenance Functional Area site and division documents.
- Review and comment on other functional area site-wide documents.
- Conduct self, management, and functional area assessments.
- Training, travel, and materials required in performing this scope of work.
- Other tasks, assignments, special requests, not covered by the above descriptions.
- Note: The above includes support from personnel required in the radiological control, quality assurance, safety and health, engineering support, fire protection, industrial hygiene (for analysis of breathing zone asbestos and annual facility inspection for asbestos containing materials), engineering design and analysis, and planning and estimating to support maintenance activities.
- Provide DOP Testing.
- Provide Maintenance Management Services (management of work orders, etc.).

II. List scope/expertise administratively provided to the site that is costed to the "Project".

- Centralized function – Budget by Maintenance organization. Need to communicate with projects to identify expectations, except at noted: 1) request special services as required; and 2) provide management direction for utility/facility alterations. Projects may budget for special services as needed.

III. List scope/expertise provided to the site that is managed by and costed to the "Project".

- None.

FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Utilities
Functional Area Manager: Bill Naber
Project/Program: Maintenance and Infrastructure Support

- I. List scope provided within your own central/core group's budgeted scope.**
- Responsible for:
 - generation of steam and compressed air
 - treatment of water (cooling water and boiler feed water)
 - distribution of potable water, process water, fire protection water, cooling water, raw well water, steam, compressed air, and electricity
 - collecting condensate and sewage
 - Utilities Operations provides continuous coverage, monitoring all utilities systems and supporting safety concerns twenty-four hours a day, seven days a week.
 - The twenty-four hours a day coverage by the Utilities Engineer, provides a continuous Management presence to the FEMP on the off shifts.
 - The twenty-four hours a day coverage for generation of steam, etc. to the FEMP.
 - Utilities collects various data and generates numerous reports, based on these activities including the verification of DOE bills concerning utility services (natural gas, electricity, and city water).
 - Utilities team members are often called on to act as subject matter experts on steam, water, compressed air, sewage collection, energy conservation, and other utilities concerns.
 - The performance of the above efforts are organized into the following control accounts:
 - AUTP1 Utilities Administration
 - AGCA1 Utilities Technical
 - AGCA2 Water Distribution
 - AGCA4 Steam and Air Generation
- II. List scope/expertise administratively provided to the site that is costed to the "Project".**
- Centralized function – Budget by Utilities organization. Need to communicate with projects to identify expectations. Projects may budget for special services as needed.
- III. List scope/expertise provided to the site that is managed by and costed to the "Project".**
- None.

FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Transportation
Functional Area Manager: Phil Kraus
Project/Program: Maintenance and Infrastructure Support

I. List scope provided within your own central/core group's budgeted scope.

- Generate reports to internal customers concerning Government Owned vehicle and Equipment usage and maintenance.
- Generate reports to DOE concerning Government Owned Vehicle and Equipment usage and maintenance.
- Provide funding for DOE portion of Fleet insurance.
- Perform drivers license checks on Transportation drivers.
- Operate the Fluor Fernald Motor Carrier program and all associated documentation.
- Provide documentation and funding for fleet vehicle purchases and fleet insurance.
- Operate the Gas Boy fueling facility and generate the fuel tracking and consumption database.
- Follow up with vehicle and equipment accident/damage investigations. Generate and maintain the associated database.
- Perform maintenance on all non-projectized Government Owned vehicles and equipment.
- Maintain the associated database for government owned vehicle and equipment maintenance.
- Review and approve all vehicle and equipment rentals, leases and purchases.
- Provide funding to support the 7day/24hour ERT schedule for the industrial mechanic when they are not performing ERT actions. (This does not include off-shift ERT coverage – see Emergency Services.)
- Perform all deliveries (i.e., delivery and pick up of federal express packages, Stores deliveries, movement of pop cans for recycling, and operate the Fluor Fernald Shuttle Bus Service. (Excludes offsite commodity deliveries and personnel relocation which are covered in other areas.)
- Deliver and pick up X-rays to area hospitals for FF Medical.
- Perform snow and ice removal and dust abatement for roadways, parking lots, storage pads and other specific project areas.
- Provide the dedicated site "snow man" to coordinate snow and ice abatement actions.
- Review, generate and develop department procedures, policies and guidance.
- Provide funding for transportation wage personnel training in the MI&S Division.
- Generation and tracking of all documentation associated with the above activities.
- Provide funding for Commercial Drivers License renewals.
- Provide funds for winter clothing for all MI&S Division Transportation staff and wage personnel.
- Operate the Government owned vehicle motor pool.

II. List scope/expertise administratively provided to the site that is costed to the "Project".

- Centralized function – Budget by Transportation organization. Need to communicate with projects to identify expectations. Projects may budget for special services as needed.

FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Transportation
Functional Area Manager: Phil Kraus
Project/Program: Maintenance and Infrastructure Support

- III. List scope/expertise provided to the site that is managed by and costed to the "Project".**
- Provide Waste Generator Services with laborers needed to support shipping and waste movement activities (6 FTE transportation wage + \$50K ODCs).
 - Supply Industrial Mechanics for equipment repair to IT Corp. (2.5 FTE industrial Mechanic + \$70K tools, parts and Anti-C's).
 - Provide Industrial Mechanic to WPRAP to support railroad equipment maintenance (.5 FTE + \$50K tools, parts, and clothing).
 - ERT wages for industrial mechanics performing fire apparatus and ambulance checks and actual ERT runs (6 FTE industrial mechanic + .5 administration person).

FUNCTIONAL RESPONSIBILITIES

Internal Audit

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Internal Audit	1. Manage internal/audit policies & procedures. 2. Perform internal audit of finances systems & program activities for compliance with laws, contract policies.	Auditor	C
Support Organizations:			
Administration	Provide assistance and information as requested by Internal Audit Dept.	NA	NA
Analytical Lab Services	"	NA	NA
Contracts & Acquisition (Prime Contract)	"	NA	NA
Cost & Schedule Improvements	"	NA	NA
Cultural Resources	"	NA	NA
Doc. Control/Procedure Mgmt.	"	NA	NA
Emergency, Security & Safeguards	"	NA	NA
Engineering Services	"	NA	NA
Environmental Compliance	"	NA	NA
Environmental Monitoring	"	NA	NA
ES&H/RAD Operations	"	NA	NA
ES&H/RAD Programmatic	"	NA	NA
Field Procurement	"	NA	NA
Finance	"	NA	NA
Human Resources	"	NA	NA
Industrial Relations	"	NA	NA
Information Management	"	NA	NA

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FUNCTIONAL RESPONSIBILITIES

Internal Audit

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Infrastructure Services <ul style="list-style-type: none"> • Facility Engineering • Facility Services • Maintenance • Transportation • Utilities 	Provide assistance and information as requested by Internal Audit Dept.	NA	NA
Internal Audit	See above.	N/A	N/A
Legal Affairs	"	NA	NA
Materials Control & Account.	"	NA	NA
Operations Assurance	"	NA	NA
Project Controls	"	NA	NA
Property Management	"	NA	NA
Public Affairs	"	NA	NA
QA Programmatic	"	NA	NA
QC Operations	"	NA	NA
Records Management	"	NA	NA
Sample Data Management	"	NA	NA
Site Closure Planning & Integration	"	NA	NA
Stewardship Planning	"	NA	NA
Technology Program	"	NA	NA
Training	"	NA	NA
WAO	"	NA	NA
Workforce Restructuring	"	NA	NA
Construction Support Contractor	"	NA	NA
Waste Pits	"	NA	NA
D&D	"	NA	NA

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FUNCTIONAL RESPONSIBILITIES

Internal Audit

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Soils/OSDF	Provide assistance and information as requested by Internal Audit Dept.	NA	NA
Silos	"	"	"
Aquifer Restoration Project	"	NA	NA
Waste Generator Services: LLW & Waste Treatment	"	NA	NA
Nuclear Material Disposition	"	NA	NA

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FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Internal Audit
Functional Area Manager: Vern Nieporte
Project/Program: Office of the President

I. List scope provided within your own central/core group's budgeted scope.

- Review all site/division procedures applicable to internal audits.
- Write audit report based on evidence.
- Record audit findings in CTS.
- Follow-up on past Internal Audit findings.
- Follow-up on past external audit (DOE-IG/DCAA) findings.
- Produce Annual Audit Plan.
- Produce Annual Audit Activity Report.
- Provide Management Advisory Services upon request.
- Internal Audit program administration.
- Provide DOE Audit Forum Peer Review support (Quality System and Support).
- Develop Professional Training Plan for Auditors.
- Coordinate with external auditing organizations.
- Perform internal control risk assessment.
- Perform fraud risk assessment.
- Maintain permanent internal control & fraud risk assessment file.
- Review changes in audit standards and contract provisions which must be incorporated into audits.
- Perform financial and operational internal audits of site activities and procedures.
- Coordinate audit responses and independently verify corrective actions.
- Provide CPE training to all internal audit professional staff - 40 hours per year.
- Support Contracts and Procurement provide assist audits on request - 15 staff days per year.
- DOE Audit Forum participation.
- Respond to unplanned audits from Leadership Team.
- Administration of Fluor Corporate Internal Audit reports.
- Attend Fluor Corporate Internal Audit Managers meeting.
- Utilize Fluor Corporate Internal Audit software (Teammate).
- All training, travel, and materials required to perform this scope.
- Communicate with all customers concerning Internal Audit events every two weeks.
- Ensure unallowable costs are identified and obtain FAR related training.

II. List scope/expertise administratively provided to the site that is costed to the "Project".

- Centralized function – Budget by Internal Audit organization. Need to communicate with projects to identify expectations. Projects may budget for special services as needed.

III. List scope/expertise provided to the site that is managed by and costed to the "Project".

- None.

FUNCTIONAL RESPONSIBILITIES

Legal Affairs

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Legal Affairs	1. Provide legal support to site. 2. Provide legal interpretation of regulations. 3. Coordinate all Fluor Fernald litigation. 4. Review procurement/bid package. 5. Review all correspondence and documents submitted to DOE or regulators from Fluor Fernald as applicable.	Lawyers	C
Support Organizations:			
Administration	Provide support to legal as requested.	NA	NA
Analytical Lab Services	Provide support to legal as requested.	NA	NA
Contracts & Acquisition (Prime Contract)	Provide support to legal as requested.	NA	NA
Cost & Schedule Improvements	Provide support to legal as requested.	NA	NA
Cultural Resources	Provide support to legal as requested.	NA	NA
Doc. Control /Procedure Mgmt.	Provide support to legal as requested.	NA	NA
Emergency, Security & Safeguards	Provide support to legal as requested.	NA	NA
Engineering Services	Provide support to legal as requested.	NA	NA
Environmental Compliance	Provide support to legal as requested.	NA	NA
Environmental Monitoring	Provide support to legal as requested.	NA	NA
ES&H/RAD Operations	Provide support to legal as requested.	NA	NA
ES&H/RAD Programmatic	Provide support to legal as requested.	NA	NA
Field Procurement	Provide support to legal as requested.	NA	NA
Finance	Provide support to legal as requested.	NA	NA
Human Resources	Provide support to legal as requested.	NA	NA
Industrial Relations	Provide support to legal as requested.	NA	NA
Information Management	Provide support to legal as requested.	NA	NA

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FUNCTIONAL RESPONSIBILITIES

Legal Affairs

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Infrastructure Services <ul style="list-style-type: none"> • Facility Engineering • Facility Services • Maintenance • Transportation • Utilities 	Provide support to legal as requested.	NA	NA
Internal Audit	Provide support to legal as requested.	NA	NA
Legal Affairs	See above.	N/A	N/A
Materials Control & Account.	Provide support to legal as requested.	NA	NA
Operations Assurance	Provide support to legal as requested.	NA	NA
Project Controls	Provide support to legal as requested.	NA	NA
Property Management	Provide support to legal as requested.	NA	NA
Public Affairs	Provide support to legal as requested.	NA	NA
QA Programmatic	Provide support to legal as requested.	NA	NA
QC Operations	Provide support to legal as requested.	NA	NA
Records Management	Provide support to legal as requested.	NA	NA
Sample Data Management	Provide support to legal as requested.	NA	NA
Site Closure Planning & Integration	Provide support to legal as requested.	NA	NA
Stewardship Planning	Provide support to legal as requested.	NA	NA
Technology Program	Provide support to legal as requested.	NA	NA
Training	Provide support to legal as requested.	NA	NA
WAO	Provide support to legal as requested.	NA	NA
Workforce Restructuring	Provide support to legal as requested.	NA	NA
Construction Support Contractor	1. Provide support to legal as requested. 2. Provide bid/procurement to legal for approval.	NA	NA
Waste Pits	1. Provide support to legal as requested. 2. Provide bid/procurement to legal for approval.	NA	NA

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FUNCTIONAL RESPONSIBILITIES

Legal Affairs

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
D&D	1. Provide support to legal as requested. 2. Provide bid/procurement to legal for approval.	NA	NA
Soils/OSDF	"	NA	NA
Silos	"	NA	NA
Aquifer Restoration Project	"	NA	NA
Waste Generator Services: LLW & Waste Treatment	"	NA	NA
Nuclear Material Disposition	"	NA	NA

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FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY
(Charge Out)

Functional Area: Legal Affairs
Functional Area Manager: Mark Sucher
Project/Program: Office of the President

I. List scope provided within your own central/core group's budgeted scope.

The Legal Affairs division provides legal support and counsel to the Fluor Fernald Office of the President and all divisions, including internal management and personnel, regarding procurement, labor, environmental, real estate and other property transactions, as well as representation in litigation for and against the company. Activities include:

- Interface with DOE Chief Counsel regarding DOE claims, lawsuits and issues.
- Assist Environmental Compliance in interpretation and documentation of regulatory legal requirements.
- Handle issues concerning labor negotiations.
- Responsible for providing all internal legal advice to all Fluor Fernald offices.
- Review and assist in the formulation of restoration subcontracts, emphasizing matters of liability and "at risk" provisions. Advise procurement staff regarding performance, termination, bid and award issues. Review all procurement submissions (bid packages) over 100K.
- Manage outside legal counsel as required to defend Fluor Fernald's legal interest in litigation or administration.
- Work to prevent or minimize employment-related litigation, contract claims, and to reduce litigation costs associated with the project.

II. List scope/expertise administratively provided to the site that is costed to the "Project".

- Centralized function – Budget by Legal Affairs organization.

III. List scope/expertise provided to the site that is managed by and costed to the "Project".

- The cost incurred by Litigation Settlements that pertain to the specific project scope will not be a specific budgeted item, but will become a part of the Risk Management Process/budget.

FUNCTIONAL RESPONSIBILITIES

Materials Control & Accountability (included in ESH&Q)

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Materials Control & Accountability	1. MC&A Policy and Procedure Management 2. Maintain the tracking and reporting of the site's nuclear material/waste inventories. 3. Prepares the shipping orders for nuclear/waste material, including processing 741 form.	1. Program Mgr. 2. Tech/Prog. Support Mgr.	C C
Support Organizations:			
Administration	None.	N/A	N/A
Analytical Lab Services	None.	N/A	N/A
Contracts & Acquisition (Prime Contract)	None.	N/A	N/A
Cost & Schedule Improvements	None.	N/A	N/A
Cultural Resources	None.	N/A	N/A
Doc. Control/Procedure Mgmt.	None.	N/A	N/A
Emergency, Security & Safeguards	None.	N/A	N/A
Engineering Services	None.	N/A	N/A
Environmental Compliance	None.	N/A	N/A
Environmental Monitoring	None.	N/A	N/A
ES&H/RAD Operations	None.	N/A	N/A
ES&H/RAD Programmatic	None.	N/A	N/A
Field Procurement	None.	N/A	N/A
Finance	None.	N/A	N/A
Human Resources	None.	N/A	N/A
Industrial Relations	None.	N/A	N/A
Information Management	None.	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

Materials Control & Accountability (included in ESH&Q)

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Infrastructure Services	None.	N/A	N/A
• Facility Engineering			
• Facility Services			
• Maintenance			
• Transportation			
• Utilities			
Internal Audit	None.	N/A	N/A
Legal Affairs	None.	N/A	N/A
Materials Control & Account.	See above		
Operations Assurance	None.	N/A	N/A
Project Controls	None.	N/A	N/A
Property Management	None.	N/A	N/A
Public Affairs	None.	N/A	N/A
QA Programmatic	None.	N/A	N/A
QC Operations	None.	N/A	N/A
Records Management	None.	N/A	N/A
Sample Data Management	None.	N/A	N/A
Site Closure Planning & Integration	None.	N/A	N/A
Stewardship Planning	None.	N/A	N/A
Technology Program	None.	N/A	N/A
Training	None.	N/A	N/A
WAO	None.	N/A	N/A
Workforce Restructuring	None.	N/A	N/A
Construction Support Contractor	None.	N/A	M
Waste Pits	None.	N/A	
D&D	None.	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

Materials Control & Accountability (included in ESH&Q)

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Soils/OSDF	None.	N/A	M
Silos	None.	N/A	N/A
Aquifer Restoration Project	None.	N/A	N/A
Waste Generator Services: LLW & Waste Treatment	None.	N/A	N/A
Nuclear Material Disposition	None.	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

Operations Assurance

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Operations Assurance	1. Operations Assurance Policy and Procedure Management 2. Manage operational readiness assessment and standard startup review programs. 3. Interface/Participate with the Independent Safety Review Committee. 4. Manage Conduct of Operations program. 5. Manage Lessons Learned and Lock & Tag Programs.	1. Program Mgr. 2. Tech/Prog. Support Mgr.	C C
Support Organizations:			
Administration	None.	N/A	N/A
Analytical Lab Services	None.	N/A	N/A
Contracts & Acquisition (Prime Contract)	None.	N/A	N/A
Cost & Schedule Improvements	None.	N/A	N/A
Cultural Resources	None.	N/A	N/A
Doc. Control/Procedure Mgmt.	None.	N/A	N/A
Emergency, Security & Safeguards	None.	N/A	N/A
Engineering Services	None.	N/A	N/A
Environmental Compliance	None.	N/A	N/A
Environmental Monitoring	None.	N/A	N/A
ES&H/RAD Operations	None.	N/A	N/A
ES&H/RAD Programmatic	None.	N/A	N/A
Field Procurement	None.	N/A	N/A
Finance	None.	N/A	N/A
Human Resources	None.	N/A	N/A
Industrial Relations	None.	N/A	N/A
Information Management	None.	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

Operations Assurance

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Infrastructure Services <ul style="list-style-type: none"> • Facility Engineering • Facility Services • Maintenance • Transportation • Utilities 	None.	N/A	N/A
Internal Audit	None.	N/A	N/A
Legal Affairs	None.	N/A	N/A
Materials Control & Account.	None.	N/A	N/A
Operations Assurance	See above.	N/A	N/A
Project Controls	None.	N/A	N/A
Property Management	None.	N/A	N/A
Public Affairs	None.	N/A	N/A
QA Programmatic	None.	N/A	N/A
QC Operations	None.	N/A	N/A
Records Management	None.	N/A	N/A
Sample Data Management	None.	N/A	N/A
Site Closure Planning & Integration	None.	N/A	N/A
Stewardship Planning	None.	N/A	N/A
Technology Program	None.	N/A	N/A
Training	None.	N/A	N/A
WAO	None.	N/A	N/A
Workforce Restructuring	None.	N/A	N/A
Construction Support Contractor	None.	N/A	M
Waste Pits	None.	N/A	
D&D	None.	N/A	N/A
Soils/OSDF	None.	N/A	M

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FUNCTIONAL RESPONSIBILITIES

Operations Assurance

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Silos	None.	N/A	N/A
Aquifer Restoration Project	None.	N/A	N/A
Waste Generator Services: LLW & Waste Treatment	None.	N/A	N/A
Nuclear Material Disposition	None.	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

Procurement

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Procurement	A. Contracts and Acquisitions 1. Manage Prime Contract Administration. 2. Administer Performance Based Fee Program. 3. Administer Financial Accountability Program. 4. DOE Order change coordination with other departments and Closure Planning. 5. DOE Order change and direction change to Fluor Fernald contract. 6. Manage Small Business and Small Disadvantaged Business programs. 7. Manage SRID program and coordinate changes with FAMs and impacts with Site Closure Planning & Integration.	Buyer Manager & Contract Manager Contract Administrator & Buyer	C C
	B.		
	C. Field Procurement 1. Procurement Policy & Procedure in accordance with Prime Contract. 2. Acquire Services & Materials for projects. 3. Manage credit card Purchasing Programs. 4. Interface with DOE on subcontract procurement and administration of commercial terms. 5. Matrix Contract Administration to projects as needed 6. Stores Management. (Includes Stores delivery transportation)	Responsible for #1-4 a. Buyer Manager & Contract Mgr. b. Buyers & Contract Administrators Responsible for #5 Contract Admin Responsible for #6 FAT&LC QC Inspection	C C M (to Projects) C M (from QC)

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FUNCTIONAL RESPONSIBILITIES

Procurement

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Support Organizations:			
Administration	Miscellaneous services and material procurement request.	NA	C (In Procurement)
Analytical Lab Services	Miscellaneous services and material procurement request.	NA	C (In Procurement)
Contracts & Acquisition (Prime Contract)	Miscellaneous services and material procurement request.	NA	C (In Procurement)
Cost & Schedule Improvements	Miscellaneous services and material procurement request.	NA	C (In Procurement)
Cultural Resources	Miscellaneous services and material procurement request.	NA	C (In Procurement)
Doc. Control/Procedure Mgmt.	Miscellaneous services and material procurement request.	NA	C (In Procurement)
Emergency, Security & Safeguards	Miscellaneous services and material procurement request.	NA	C (In Procurement)
Engineering Services	Miscellaneous services and material procurement request.	NA	C (In Procurement)
Environmental Compliance	Miscellaneous services and material procurement request.	NA	C (In Procurement)
Environmental Monitoring	Miscellaneous services and material procurement request.	NA	C (In Procurement)
ES&H/RAD Operations	Miscellaneous services and material procurement request.	NA	C (In Procurement)
ES&H/RAD Programmatic	Miscellaneous services and material procurement request.	NA	C (In Procurement)
Field Procurement	Miscellaneous services and material procurement request.	N/A	N/A
Finance	Miscellaneous services and material procurement request.	NA	C (In Procurement)

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FUNCTIONAL RESPONSIBILITIES

Procurement

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Human Resources	Miscellaneous services and material procurement request.	NA	C (In Procurement)
Industrial Relations	Miscellaneous services and material procurement request.	NA	C (In Procurement)
Information Management	Miscellaneous services and material procurement request.	NA	C (In Procurement)
Infrastructure Services <ul style="list-style-type: none"> • Facility Engineering • Facility Services • Maintenance • Transportation • Utilities 	Miscellaneous services and material procurement request.	NA	C (In Procurement)
Internal Audit	Miscellaneous services and material procurement request.	NA	C (In Procurement)
Legal Affairs	Miscellaneous services and material procurement request.	NA	C (In Procurement)
Materials Control & Account.	Miscellaneous services and material procurement request.	NA	C (In Procurement)
Operations Assurance	Miscellaneous services and material procurement request.	NA	C (In Procurement)
Project Controls	Miscellaneous services and material procurement request.	NA	C (In Procurement)
Property Management	Miscellaneous services and material procurement request.	NA	C (In Procurement)
Public Affairs	Miscellaneous services and material procurement request.	NA	C (In Procurement)
QA Programmatic	Miscellaneous services and material procurement request.	NA	C (In Procurement)

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FUNCTIONAL RESPONSIBILITIES

Procurement

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
QC Operations	Miscellaneous services and material procurement request.	NA	C (In Procurement)
Records Management	Miscellaneous services and material procurement request.	NA	C (In Procurement)
Sample Data Management	Miscellaneous services and material procurement request.	NA	C (In Procurement)
Site Closure Planning & Integration	1. Miscellaneous services and material procurement request. 2. Manage the potential impact to cost and schedule from DOE Orders and SRID changes.	NA	P
Stewardship Planning	Miscellaneous services and material procurement request.	NA	C (In Procurement)
Technology Program	Miscellaneous services and material procurement request.	NA	C (In Procurement)
Training	Miscellaneous services and material procurement request.	NA	C (In Procurement)
WAO	Miscellaneous services and material procurement request.	NA	C (In Procurement)
Workforce Restructuring	Miscellaneous services and material procurement request.	NA	C (In Procurement)
Construction Support Contractor	1. Administer subcontracts. 2. Miscellaneous services and material procurement request.	Contract Admin and/or Buyer	M (from Procurement) C (In Procurement)
Waste Pits	1. Administer subcontracts. 2. Miscellaneous services and material procurement request.	Contract Admin and/or Buyer	P C (In Procurement)

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FUNCTIONAL RESPONSIBILITIES

Procurement

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
D&D	1. Manage subcontract procurement. 2. Administer subcontracts. 3. Miscellaneous services & material procurement request.	Contract Admin and/or Buyer	M (from Procurement) C (In Procurement)
Soils/OSDF	1. Manage subcontract procurement. 2. Administer subcontracts. 3. Miscellaneous services and material procurement request.	Contract Admin and/or Buyer	M (from Procurement) C (In Procurement)
Silos	1. Manage subcontract procurement. 2. Administer subcontracts. 3. Miscellaneous services and material procurement request.	Contract Admin and/or Buyer	M (from Procurement) C (In Procurement)
Aquifer Restoration Project	1. Manage subcontract procurement. 2. Administer subcontracts. 3. Miscellaneous services and material procurement request.	Contract Admin and/or Buyer	M (from Procurement) C (In Procurement)
Waste Generator Services: LLW & Waste Treatment	1. Manage subcontract procurement. 2. Administer subcontracts. 3. Miscellaneous services and material procurement request.	Contract Admin and/or Buyer	M (from Procurement) C (In Procurement)
Nuclear Material Disposition	1. Manage subcontract procurement. 2. Administer subcontracts. 3. Miscellaneous services and material procurement request.	Contract Admin and/or Buyer	M (from Procurement) C (In Procurement)

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FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Acquisitions/Prime Contract Administration
Functional Area Manager: Rex Norton
Project/Program: Office of the President

I. List scope provided within your own central/core group's budgeted scope.

- Administer Prime Contract including cost reimbursement issues and Performance Based Fee, manage S/RID Program.
- Review all site/division procedures, procedure writing, NCR tracking, sitewide performance indicators.
- PAAA program support. Acquire materials, services, and real property to support mission needs in compliance with Federal and DOE regulations and good business practices. This includes managing all aspects of vendor selection; award administration/closeout of subcontracts for materials and services; coordinate company/supplier communications to ensure appropriate business and procurement ethics are upheld. Assist technical personnel in technical reviews. Document files.
- Provide administration to the site-wide Credit Card Program. Interface with internal and external auditing organizations. Implement Fluor Fernald's Socio-economic subcontracting program and develop required socio-economic programs by identifying the developing qualified firms and pre-qualifying small and small disadvantaged firms. Attend minority business trade shows to locate new minority vendors. Coordinate with small and small disadvantaged businesses in obtaining business at the FEMP. Provide administration of prime contract between the Department of energy, Fluor Fernald and Teaming Partners as well as Subcontractors. Responsible for prime contract administration requirements such as premium overtime and home office support services and oversight of interpretation of subcontract and purchase order terms and conditions. Review and coordinate changes in Prime Contract which must be incorporated into programs. Training, travel and materials required to perform scope.

II. List scope/expertise administratively provided to the site that is costed to the "Project".

- Centralized function – Budget by Contracts and Acquisitions organization. Need to communicate with projects to identify expectations. Projects may budget for special services as needed.

III. List scope/expertise provided to the site that is managed by and costed to the "Project".

- Provide complete procurement support matrixed out to Projects. This consists of acquiring materials, services and real property required to support mission needs in compliance with Federal and DOE regulations and good business practices. This includes managing all aspects of vendor selection; award administration and close out of subcontracts for materials and services. Coordinate company/supplier communications to ensure appropriate business and procurement ethics and upheld. Administer construction subcontracts; and report status and results of procurement actions to interested parties. Provide price analysis or cost and price analysis. Assist technical personnel performing technical reviews. Purchase materials or services from small and small disadvantaged businesses whenever possible. Document files.

FUNCTIONAL RESPONSIBILITIES

Project Controls

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Project Controls	<ol style="list-style-type: none"> Project Controls policy & procedures management. Maintain Baseline Files. Prepare funds management reports Process CP for Change Control. Coordinate budget/funding inputs with Closure Planning. Publish Site Cost, budget & schedule reports. Provide analysis of site cost and schedule data. Support project needs for special data requests from project control system. Support DOE external requirements as needed, i.e. audits, special task teams congressional requests, etc. Provide estimating services. Matrix cost and schedule personnel to projects. 	Responsibilities 1-9 PC Manager Cost Analyst & Scheduler	C C
Support Organizations:			
Administration	<ol style="list-style-type: none"> Maintain budget and schedule for Department. Provide input to Closure Planning and PC on budgets, costs, schedule and manpower for site needs. Provide performance reports. Provide Change Control documentation. Develop Estimates as needed. 	Responsibilities 1-4 Cost Analyst & Scheduler	M
Analytical Lab Services	"	"	C (In Project Controls)
Contracts & Acquisition (Prime Contract)	"	NA	NA
Cost & Schedule Improvements	"	NA	NA
Cultural Resources	"	"	"

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FUNCTIONAL RESPONSIBILITIES

Project Controls

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Doc. Control/Procedure Mgmt.	5. Maintain budget and schedule for Department. 6. Provide input to Closure Planning and PC on budgets, costs, schedule and manpower for site needs. 7. Provide performance reports. 8. Provide Change Control documentation. 6. Develop Estimates as needed.	Responsibilities 1-4 Cost Analyst & Scheduler 5. NA	M C (In Project Controls) "
Emergency, Security & Safeguards	"	"	"
Engineering Services	"	"	"
Environmental Compliance	"	"	"
Environmental Monitoring	"	"	"
ES&H/RAD Operations	"	"	"
ES&H/RAD Programmatic	"	"	"
Field Procurement	"	"	"
Finance	"	"	"
Human Resources	"	"	"
Industrial Relations	"	"	"
Information Management	"	"	"
Infrastructure Services	"	"	"
<ul style="list-style-type: none"> Facility Engineering Facility Services Maintenance Transportation Utilities 			
Internal Audit	"	"	"
Legal Affairs	"	"	"
Materials Control & Account.	"	"	"

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FUNCTIONAL RESPONSIBILITIES

Project Controls

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Operations Assurance	"	"	"
Project Controls	See above.	N/A	N/A
Property Management	1. Maintain budget and schedule for Department. 2. Provide input to Closure Planning and PC on budgets, costs, schedule and manpower for site needs. 3. Provide performance reports. 4. Provide Change Control documentation. 5. Develop estimates as needed.	"	"
Public Affairs	"	"	"
QA Programmatic	"	"	"
QC Operations	"	"	"
Records Management	"	"	"
Sample Data Management	"	"	"
Site Closure Planning & Integration	"	"	"
Stewardship Planning	"	"	"
Technology Program	"	"	"
Training	"	"	"
WAO	"	"	"
Workforce Restructuring	"	"	"
Construction Support Contractor	"	"	"
Waste Pits	"	"	"
D&D	"	"	"
Soils/OSDF	"	"	"
Silos	"	"	"

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FUNCTIONAL RESPONSIBILITIES

Project Controls

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Aquifer Restoration Project	1. Maintain budget and schedule for project. 2. Provide input to Closure Planning and PC on budgets, costs, schedule and manpower for site needs. 3. Provide performance metrics and reports. 4. Provide Change Control documentation. 5. Develop estimates as needed.	Responsibilities 1-4 Cost Analyst & Scheduler	M
Waste Generator Services: LLW & Waste Treatment	"	5.N/A	(In Procurement)
Nuclear Material Disposition	"	"	"

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FUNCTIONAL RESPONSIBILITIES

Property Management

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Property Management	Manages the effective and economical control of government-owned personal property and disposition of surplus property.	Material/Property Control Mgr. & Rep.	C
Support Organizations:			
Administration	Provide information and interact with Departments as requested.	NA	NA
Analytical Lab Services	Provide information and interact with Departments as requested.	NA	NA
Contracts & Acquisition (Prime Contract)	Provide information and interact with Departments as requested.	NA	NA
Cost & Schedule Improvements	Provide information and interact with Departments as requested.	NA	NA
Cultural Resources	Provide information and interact with Departments as requested.	NA	NA
Doc. Control/Procedure Mgmt.	Provide information and interact with Departments as requested.	NA	NA
Emergency, Security & Safeguards	Provide information and interact with Departments as requested.	NA	NA
Engineering Services	Provide information and interact with Departments as requested.	NA	NA
Environmental Compliance	Provide information and interact with Departments as requested.	NA	NA
Environmental Monitoring	Provide information and interact with Departments as requested.	NA	NA
ES&H/RAD Operations	Provide information and interact with Departments as requested.	NA	NA
ES&H/RAD Programmatic	Provide information and interact with Departments as requested.	NA	NA
Field Procurement	Provide information and interact with Departments as requested.	NA	NA
Finance	Provide information and interact with Departments as requested.	NA	NA
Human Resources	Provide information and interact with Departments as requested.	NA	NA
Industrial Relations	Provide information and interact with Departments as requested.	NA	NA
Information Management	Provide information and interact with Departments as requested.	NA	NA
Infrastructure Services	Provide information and interact with Departments as requested.	NA	NA
<ul style="list-style-type: none"> Facility Engineering Facility Services Maintenance Transportation Utilities 			

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FUNCTIONAL RESPONSIBILITIES

Property Management

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Internal Audit	Provide information and interact with Departments as requested.	NA	NA
Legal Affairs	Provide information and interact with Departments as requested.	NA	NA
Materials Control & Account.	Provide information and interact with Departments as requested.	NA	NA
Operations Assurance	Provide information and interact with Departments as requested.	NA	NA
Project Controls	Provide information and interact with Departments as requested.	NA	NA
Property Management	See above.	NA	NA
Public Affairs	Provide information and interact with Departments as requested.	NA	NA
QA Programmatic	Provide information and interact with Departments as requested.	NA	NA
QC Operations	Provide information and interact with Departments as requested.	NA	NA
Records Management	Provide information and interact with Departments as requested.	NA	NA
Sample Data Management	Provide information and interact with Departments as requested.	NA	NA
Site Closure Planning & Integration	Provide information and interact with Departments as requested.	NA	NA
Stewardship Planning	Provide information and interact with Departments as requested.	NA	NA
Technology Program	Provide information and interact with Departments as requested.	NA	NA
Training	Provide information and interact with Departments as requested.	NA	NA
WAO	Provide information and interact with Departments as requested.	NA	NA
Workforce Restructuring	Provide information and interact with Departments as requested.	NA	NA
Construction Support Contractor	Provide information and interact with Departments as requested.	NA	NA
Waste Pits	Provide information and interact with Departments as requested.	NA	NA
D&D	Provide information and interact with Departments as requested.	NA	NA
Soils/OSDF	Provide information and interact with Departments as requested.	NA	NA
Silos	Provide information and interact with Departments as requested.	NA	NA
Aquifer Restoration Project	Provide information and interact with Departments as requested.	NA	NA
Waste Generator Services: LLW & Waste Treatment	Provide information and interact with Departments as requested.	NA	NA
Nuclear Material Disposition	Provide information and interact with Departments as requested.	NA	NA

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FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Property Management/Stores Administration
Functional Area Manager: Doug Copenhefer
Project/Program: Maintenance and Infrastructure Support

I. List scope provided within your own central/core group's budgeted scope.

- Receive materials from vendors, verify compliance with contractual agreements, and forward to requisitioner.
- Plan and control inventory, spare parts, and other materials to support sitewide users.
- Provide a clearing account of inventory write-offs for all programs.
- Provide compliance with traffic regulatory requirements and services for the site.
- Provide central inventory control and warehouse for office furniture and excess equipment in an off-site location.
- Provide periodic reporting, including physical inventory results.
- Identify government property in accordance with 41CFR 101 & 109
- Provide control over acquisition of personal property and bar code applicable sensitive items.
- Schedule and supervise the performance of physical inventories as follows: 1) movable capital equipment – bi-annually, 2) sensitive items – annually, 3) stores inventory – annually, 4) precious metal annually, 5) real Property - every ten years.
- Provide for periodic reporting, including physical inventory results, as required, the total acquisition cost of government property in the possession of Fluor Fernald and its subcontractors.
- Maintain an internal surveillance system, including periodic reviews, to ensure that property is being managed in accordance with established procedures.
- Maintain government real property records including unimproved real property, alterations, all construction work, and sites connected with such alterations and construction acquired by purchase, lease, or otherwise.
- Maintain a retirement work order procedure to account for property lost, stolen, or destroyed, abandoned, damaged beyond economical repair, or no longer necessary to perform the work at the site. Process a lost and damaged report.
- Provide administrative control over high risk property.
- Perform required reporting, redistribution, and disposal of excess and surplus property.
- Maintain adequate records.
- Materials receiving for AWWT and garage.
- Inventory control and issuance for AWWT and garage.

II. List scope/expertise administratively provided to the site that is costed to the "Project".

- Centralized function – Budget by Property Management/Stores Administration organization. Need to communicate with projects to identify expectations. Projects may budget for special services as needed.
- Provide off-site access agreements for projects as required.

III. List scope/expertise provided to the site that is managed by and costed to the "Project".

- None.

FUNCTIONAL RESPONSIBILITIES

Public Affairs

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Public Affairs	1. Manage communication program with external & internal stakeholders 2. Provide and manage site communication program 3. Manage Educational Outreach program 4. Screen media for site related issues and concerns 5. Interface with media 6. Lead on interaction with external stakeholder concerns 7. Manage Multi Media Services 8. Manage Graphic Services 9. Manage all photographic documentation 10. Provide interface with DNFSB	PA Manager PA Rep	C C
Support Organizations:			
Administration	Provide information and interact with Public Affairs as requested.	N/A	N/A
Analytical Lab Services	"	N/A	N/A
Contracts & Acquisition (Prime Contract)	"	N/A	N/A
Cost & Schedule Improvements	"	N/A	N/A
Cultural Resources	"	N/A	N/A
Doc. Control/Procedure Mgmt.	"	N/A	N/A
Emergency, Security & Safeguards			
Engineering Services	"	N/A	N/A
Environmental Compliance	"	N/A	N/A
Environmental Monitoring	"	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

Public Affairs

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
ES&H/RAD Operations	Provide information and interact with Public Affairs as requested.	N/A	N/A
ES&H/RAD Programmatic	"	N/A	N/A
Field Procurement	"	N/A	N/A
Finance	"	N/A	N/A
Human Resources	"	N/A	N/A
Industrial Relations	"	N/A	N/A
Information Management	"	N/A	N/A
Infrastructure Services	"	N/A	N/A
<ul style="list-style-type: none"> • Facility Engineering • Facility Services • Maintenance • Transportation • Utilities 	"	N/A	N/A
Internal Audit	"	N/A	N/A
Legal Affairs	"	N/A	N/A
Materials Control & Account.	"	N/A	N/A
Operations Assurance	"	N/A	N/A
Project Controls	"	N/A	N/A
Property Management	"	N/A	N/A
Public Affairs	See above.	N/A	N/A
QA Programmatic	"	N/A	N/A
QC Operations	"	N/A	N/A
Records Management	"	N/A	N/A
Sample Data Management	"	N/A	N/A
Site Closure Planning & Integration	"	N/A	N/A
Stewardship Planning	"	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

Public Affairs

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Technology Program	Provide information and interact with Public Affairs as requested.	N/A	N/A
Training	"	N/A	N/A
WAO	"	N/A	N/A
Workforce Restructuring	"	N/A	N/A
Construction Support Contractor	"	N/A	N/A
Waste Pits	"	N/A	N/A
D&D	"	N/A	N/A
Soils/OSDF	"	N/A	N/A
Silos	"	N/A	N/A
Aquifer Restoration Project	"	N/A	N/A
Waste Generator Services: LLW & Waste Treatment	"	N/A	N/A
Nuclear Material Disposition	"	N/A	N/A

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FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Public Affairs
Functional Area Manager: Jeff Wagner
Project/Program: Office of the President

I. List scope provided within your own central/core group's budgeted scope.

- Integrate Fernald stakeholders into the decision-making process.
- Provide appropriate and timely site progress updates and information to internal and external stakeholders.
- Proactively address issues and take appropriate course of action.
- Community Outreach - Umbrella organization for all of Fernald's community and education outreach programs.
- Interface with Department of Energy and Fluor Fernald key stakeholders.

- External Communication - Responsible for all communication delivered to external stakeholders and the media.
- External Communication - Produce Fernald Annual Report.
- External Communication - Maintain Fernald stakeholder database.
- External Communication - Produce DOE project update magazine Fernald Report.
- External Communication - Produce and distribute "A Look Ahead" newsletter.
- External Communication - Serve as conduit to media and as media advisor for site and project managers.
- External Communication - Operate and maintain Fernald Web-Site.
- External Communication - Produce "Cleanup Progress Reports".

- Internal Communication - Responsible for all general site and management information directed to employees.
- Internal Communication - Responsible for production and distribution of weekly publications "News to Use" and "Let's Talk" for employees and supervisors.
- Internal Communication - Responsible for the general communication signage.
- Internal Communication - Produce employee newspaper "Forward".
- Internal Communication - Responsible for the content and accuracy of Fernald intranet.
- Internal Communication - Organize employee face-to-face communication events like roundtables.
- Internal Communication - Operate and maintain InfoChannel employee communication system.

- Responsible for coordinating major Fernald employee events.

- Project - Provide photographic support of site cleanup.
- Project - Provide video shooting, writing, editing, post-production and duplication services in support of site mission.
- Project - Provide audio/visual (A/V) support to Fernald meetings and conference rooms.
- Project - Maintain site graphic, photographic and videotape data base.
- Project - Provide all aspects of graphic production including layout and design of displays, publications, fact sheets, presentations etc. in support of MVS customers.

FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Public Affairs
Functional Area Manager: Jeff Wagner
Project/Program: Office of the President

- Project - Monitor and distribution of Fernald related stories in all media.
 - Public Involvement - Support communication between Fernald's projects and stakeholders.
 - Public Involvement - Produce and support monthly Cleanup Progress Briefings, Workshops and meetings.
 - Public Involvement - Support Fernald Citizens Advisory Board.
 - Public Involvement - Support Fernald Community Reuse Organization.
 - Public Involvement - Support Fernald Living History Project.
 - Public Involvement - Support site tours.
- II. List scope/expertise administratively provided to the site that is costed to the "Project".**
- Centralized function – Budget by Public Affairs organization. Need to communicate with projects to identify expectations. Projects may budget for special services as needed.
- III. List scope/expertise provided to the site that is managed by and costed to the "Project".**
- None.

FUNCTIONAL RESPONSIBILITIES

QA/QC

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
QA Programmatic	<ol style="list-style-type: none"> QA Policy and Procedure Management. Interface with DOE for DOE Orders, Ohio, HQ and site issues. Program Audits & Trend Analysis. Price Anderson coordination programs. 	QA Mgr. & QA Eng.	C
QC Operations	<ol style="list-style-type: none"> Manage QC Inspection and work with projects on manpower needs. Develop inspection plan. Matrix full time QC inspect to project for audits & surveillance on subcontracted work. Assign matrix full time QC inspect to project for first line inspection (Self perform work). Vendor Program Audit Shop and receipt Inspections. Maintain Commitment Tracking Program 	<ol style="list-style-type: none"> Lead QA Mgr. QA Eng. QC Inspector QC Inspector QC Inspector Clerical 	<ol style="list-style-type: none"> C C M P C C
Support Organizations:			
Administration	Provide information for QA audit as required.	N/A	N/A
Analytical Lab Services	Provide information for QA audit as required.	N/A	N/A
Contracts & Acquisition (Prime Contract)	Provide information for QA audit as required.	N/A	N/A
Cost & Schedule Improvements	Provide information for QA audit as required.	N/A	N/A
Cultural Resources	Provide information for QA audit as required.	N/A	N/A
Doc. Control/Procedure Mgmt.	Provide information for QA audit as required.	N/A	N/A
Emergency, Security & Safeguards	Provide information for QA audit as required.	N/A	N/A
Engineering Services	Provide information for QA audit as required.	N/A	N/A
Environmental Compliance	Provide information for QA audit as required.	N/A	N/A
Environmental Monitoring	Provide information for QA audit as required.	N/A	N/A
ES&H/RAD Operations	<ol style="list-style-type: none"> Coordinate random audit inspections with QA/QC. Provide information for QA audit as required. 	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

QA/QC

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
ES&H/RAD Programmatic	Provide information for QA audit as required.	N/A	N/A
Field Procurement	Provide information for QA audit as required.	N/A	N/A
Finance	Provide information for QA audit as required.	N/A	N/A
Human Resources	Provide information for QA audit as required.	N/A	N/A
Industrial Relations	Provide information for QA audit as required.	N/A	N/A
Information Management	Provide information for QA audit as required.	N/A	N/A
Infrastructure Services <ul style="list-style-type: none"> Facility Engineering Facility Services Maintenance Transportation Utilities 	1. Provide information for QA audit as required. 2. Provide QC inspection for surveillance and audit. 3. Provide First line QC inspection, data and documentation where required.	1. N/A 2. QC Inspector 3. QC Inspector	1. N/A 2. M from QC 3. P
Internal Audit	Provide information for QA audit as required.	N/A	N/A
Legal Affairs	Provide information for QA audit as required.	N/A	N/A
Materials Control & Account.	Provide information for QA audit as required.	N/A	N/A
Operations Assurance	Provide information for QA audit as required.	N/A	N/A
Project Controls	Provide information for QA audit as required.	N/A	N/A
Property Management	Provide information for QA audit as required.	N/A	N/A
Public Affairs	Provide information for QA audit as required.	N/A	N/A
QA Programmatic	See above.	N/A	N/A
QC Operations	See above.	N/A	N/A
Records Management	Provide information for QA audit as required.	N/A	N/A
Sample Data Management	Provide information for QA audit as required.	N/A	N/A
Site Closure Planning & Integration	Provide information for QA audit as required.	N/A	N/A
Stewardship Planning	Provide information for QA audit as required.	N/A	N/A
Technology Program	Provide information for QA audit as required.	N/A	N/A
Training	Provide information for QA audit as required.	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

QA/QC

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
WAO	Provide information for QA audit as required.	N/A	N/A
Workforce Restructuring	Provide information for QA audit as required.	N/A	N/A
Construction Support Contractor	First Line QC Inspection.	QC Inspector	M from QC
Waste Pits	QC Inspection for surveillance and audit of subcontractor & Waste Pit organization.	QC Inspector	M from QC
D&D	QC Inspection for surveillance and audit of subcontractor & D&D organization.	QC Inspector	M from QC
Soils/OSDF	QC Inspection for surveillance and audit of subcontractor & OSDF organization.	QC Inspector	M from QC
Silos	1. QC Inspection for surveillance and audit of subcontractor & Silo organization. 2. First line QC for Silos 1 & 2.	1. QC Inspector 2. QC Inspector	1. M from QC 2. P
Aquifer Restoration Project	QC Inspection for surveillance and audit of subcontractor and water treatment program.	QC Inspector	M from QC
Waste Generator Services: LLW & Waste Treatment	First line QC during waste treatment/packing and loading.	QC Inspector	P
Waste Management	First line QC during waste treatment/packing and loading.	QC Inspector	P

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FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Quality Assurance
Functional Area Manager: Brinley Varchol
Project/Program: Environment, Safety, Health and Quality

I. List scope provided within your own central/core group's budgeted scope.

- Review all site/division procedures.
- Procedure writing.
- Sitewide performance indicators.
- PAAA program administration.
- Support non-project procurement activities.
- Audit program administration.
- Quality System and Support - development of quality processes (e.g. Graded Approach).
- Interface with external auditing organizations.
- Coordinate and issue the sitewide integrated assessment schedule.
- Review and coordinate changes in CFR requirements/regulations which must be incorporated into programs.
- All training, travel, and materials required to perform this scope.
- Perform internal quality audits of site activities and procedures.
- Coordinate external assessment responses and independently verify selected corrective actions and external commitments.
- Support non-project procurement activities e.g. vendor validation and requisition review planning.
- DOE assessment participation (e.g. joint assessment Waste Characterization).
- Verification of unplanned commitments from external assessments (e.g. WPRAP letter).
- Administration and verification of NTS reports (e.g. WPRAP).
- Verification of new requirement changes (e.g. new 830 Rule).

II. List scope/expertise administratively provided to the site that is costed to the "Project".

- Centralized function – Budget by Quality Assurance organization. Need to communicate with projects to identify expectations. Projects may budget for special services as needed.

III. List scope/expertise provided to the site that is managed by and costed to the "Project".

- None.

FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Quality Control Operations
Functional Area Manager: Vern Turner
Project/Program: Maintenance and Infrastructure Support

I. List scope provided within your own central/core group's budgeted scope.

- Review all site/division procedures.
- Procedure writing.
- NCR tracking.
- CTS tracking and data entry.
- Support procurement activities.
- Surveillance and audit program administration.
- Quality System and Support - development of quality processes (e.g. Graded Approach).
- Interface with external auditing organizations.
- Review and coordinate changes in CFR requirements/regulations which must be incorporated into programs.
- All training, travel, and materials required to perform this scope.
- Maintain NDE Inspector qualifications and certification.
- Coordinate external assessment responses and independently verify corrective actions and external commitments.
- Support project procurement activities e.g. vendor validation and requisition review planning.
- Verification of unplanned commitments from external assessments (e.g. WPRAP letter).
- Administration and verification of NTS reports (e.g. WPRAP).
- Verification of new requirement changes (e.g. new 830 Rule).

II. List scope/expertise administratively provided to the site that is costed to the "Project".

- Centralized function – Budget by Quality Control Operations. Need to communicate with projects to identify expectations. Projects may budget for special services as needed.
- Perform internal quality assessments of site activities and procedures.

III. List scope/expertise provided to the site that is managed by and costed to the "Project".

- The items noted below are to be budgeted by the projects. Quality Control Field Support will be matrixed to the project from Quality Control Operations on an as needed basis.
 - Implement Title III/Project inspection program (QEPs)
 - Perform real-time radioscopy
 - Conduct self assessments
 - Conduct management assessments
 - Perform vendor/supplier/lab audits
 - Perform surveillances
 - Issue nonconformance reports & verify corrective actions
 - QA review and approval of project documents

FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Quality Control Operations
Functional Area Manager: Vern Turner
Project/Program: Maintenance and Infrastructure Support

- Coordinate & conduct receiving inspections
- Support project procurement activities (e.g. requisition review)
- Work order/task order review
- All training, travel, and materials required to perform this scope.

FUNCTIONAL RESPONSIBILITIES

Records Management

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Records Management	1. Records management policy and procedure management 2. Management of archived records and records facility 3. Management of records retrieved for internal and external requests	1. Information Records Mgr. 2. Information Records Rep. 3. Clerks	C C C
Support Organizations:			
Administration	1. Transmit records to Records Management per requirements. 2. Request copies of historical records on an as needed basis.	N/A	NA
Analytical Lab Services	"	"	NA
Contracts & Acquisition (Prime Contract)	"	"	NA
Cost & Schedule Improvements	"	"	NA
Cultural Resources	"	"	NA
Doc. Control/Procedure Mgmt.	"	"	NA
Emergency, Security & Safeguards	"	"	NA
Engineering Services	"	"	NA
Environmental Compliance	"	"	NA
Environmental Monitoring	"	"	NA
ES&H/RAD Operations	"	"	NA
ES&H/RAD Programmatic	"	"	NA
Field Procurement	"	"	NA
Finance	"	"	NA
Human Resources	"	"	NA
Industrial Relations	"	"	NA

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FUNCTIONAL RESPONSIBILITIES

Records Management

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Information Management	3. Transmit records to Records Management per requirements. 4. Request copies of historical records on an as needed basis.	N/A	NA
Infrastructure Services <ul style="list-style-type: none"> • Facility Engineering • Facility Services • Maintenance • Transportation • Utilities 	1. Transmit records to Records Management per requirements. 2. Request copies of historical records on an as needed basis. 3. Provide records transportation.	N/A By Transportation Resources	NA C (In Transportation)
Internal Audit	1. Transmit records to Records Management per requirements. 2. Request copies of historical records on an as needed basis.	N/A	NA
Legal Affairs	"	"	"
Materials Control & Account.	"	"	"
Operations Assurance	"	"	"
Project Controls	"	"	"
Property Management	"	"	"
Public Affairs	"	"	"
QA Programmatic	"	"	"
QC Operations	"	"	"
Records Management	See above.	"	"
Sample Data Management	1. Transmit records to Records Management per requirements. 2. Request copies of historical records on an as needed basis.	N/A	NA

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FUNCTIONAL RESPONSIBILITIES

Records Management

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Site Closure Planning & Integration	1. Transmit records to Records Management per requirements. 2. Request copies of historical records on an as needed basis.	N/A	NA
Stewardship Planning	"	N/A	NA
Technology Program	"	N/A	NA
Training	"	N/A	NA
WAO	"	N/A	NA
Workforce Restructuring	"	N/A	NA
Construction Support Contractor	"	N/A	NA
Waste Pits	"	N/A	NA
D&D	"	N/A	NA
Soils/OSDF	"	N/A	NA
Silos	"	N/A	NA
Aquifer Restoration Project	"	N/A	NA
Waste Generator Services: LLW & Waste Treatment	"	N/A	N/A
Nuclear Material Disposition	"	N/A	NA

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FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Records Management
Functional Area Manager: Luther Brown
Project/Program: Administration

I. List scope provided within your own central/core group's budgeted scope.

- Active and electronic records management--disposition, storage, and retrieval of active records, including electronic & micrographic records.
- Emergency Disaster Recovery Support--coordination of disaster recovery and mitigation activities in response to records emergencies or disasters.
- Records management training--classroom training in all aspects of records management practices.
- Technical writing--drafting or editing of procedures and policies pertaining to records management-related activities and assistance with implementation and compliance.
- DOE Environmental Records Schedule Team--active participant in the DOE Environmental Records Scheduling Team.
- Coordination of Records Management Program coordinators' activities.
- Manage Central Data Files, which contain the analytical data records for the FEMP.
- Manage Technical Information Center (TIC).
- Integrates all historical records data into current database systems.
- Maintains systems tables and views, approves system changes, performs updates requiring Administrator rights, and designs new systems and interfaces.
- Records Acceptance and Validation--validation of records prior to archival, and the systematic approach to records storage and retrieval.
- Provides proper disposition of government-owned records by transferring them to the Federal Records Center.
- Oversees destruction of non-permanent records, per applicable guides.
- Provides data entry of all rosters, tests, lesson plans, Training Evaluation Standards (TES), briefings, etc.

II. List scope/expertise administratively provided to the site that is costed to the "Project".

- Centralized function – Budget by Records Management organization. Need to communicate with projects to identify expectations. Projects may budget for special services as needed.

III. List scope/expertise provided to the site that is managed by and costed to the "Project".

- None.

FUNCTIONAL RESPONSIBILITIES

Sample & Data Management

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Sample & Data Management	1. Provide interface with projects in lab services. 2. Manage offsite lab services. 3. Maintain SCQ, DQO, IOC programs. 4. Input to FACTS and maintain chain of custody, and sample disposition programs. 5. Review and validate data. 6. Manage environmental data systems. 7. Manage GIS system.	1. Env. Protection Rep. 2. Env. Protection Mgr. 3. Env. Scientist Rep. 4. Env. Scientist Mgr. 5. Scientist Tech	C C C C C
Support Organizations:			
Administration Services	None.	N/A	N/A
Analytical Lab Services	None.	N/A	N/A
Contracts & Acquisition (Prime Contract)	None.	N/A	N/A
Cost & Schedule Improvements	None.	N/A	N/A
Cultural Resources	None.	N/A	N/A
Doc. Control Procedure Mgmt.	None.	N/A	N/A
Emergency, Security & Safeguards	None.	N/A	N/A
Engineering Services	None.	N/A	N/A
Environmental Compliance	None.	N/A	N/A
Environmental Monitoring	None.	N/A	N/A
ES&H/RAD Operations	None.	N/A	N/A
ES&H RAD Programmatic	None.	N/A	N/A
Field Procurement	None.	N/A	N/A
Finance	None.	N/A	N/A
Human Resources	None.	N/A	N/A
Industrial Relations	None.	N/A	N/A
Information Management	None.	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

Sample & Data Management

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Infrastructure Services	None.	N/A	N/A
• Facility Services			
• Maintenance			
• Transportation			
• Utilities			
Internal Audit	None.	N/A	N/A
Legal Affairs	None.	N/A	N/A
Materials Control & Account.	None.	N/A	N/A
Operations Assurance	None.	N/A	N/A
Project Controls	None.	N/A	N/A
Property Management	None.	N/A	N/A
Public Affairs	None.	N/A	N/A
QA Programmatic	None.	N/A	N/A
QC Operations	None.	N/A	N/A
Records Management	None.	N/A	N/A
Sample Data Management	None.	N/A	N/A
Site Closure Planning & Integration	None.	N/A	N/A
Stewardship Planning	None.	N/A	N/A
Technology Program	None.	N/A	N/A
Training	None.	N/A	N/A
WAO	None.	N/A	N/A
Workforce Restructuring	None.	N/A	N/A
Construction Support Contractor	None.	N/A	N/A
Waste Pits	Provide information to S&OM as required. (Note: sampling and offsite/onsite lab analysis is covered under Lab Services.	N/A	N/A
D&D	" "	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

Sample & Data Management

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Soils/OSDF	Provide information to S&OM as required. (Note: sampling and offsite/onsite lab analysis is covered under Lab Services.	N/A	N/A
Silos	"	N/A	N/A
Aquifer Restoration Project	"	N/A	N/A
Waste Generator Services: LLW & Waste Treatment	"	N/A	N/A
Waste Management	"	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

Emergency Services, Security & Safeguards

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Emergency, Security & Safeguards	1. Provides 24-hour communications, emergency dispatch, alarm monitoring and security systems. 2. Conducts emergency preparedness drills and manages the emergency operations center. 3. Provides uniformed security, access control and investigations. 4. Provides fire safety services, alarm testing and emergency response.	Security Rep.	C
Support Organizations:			
Administration	Provide information and interact with Security/EM Services as requested.	N/A	N/A
Analytical Lab Services	"	N/A	N/A
Contracts & Acquisition (Prime Contract)	"	N/A	N/A
Cost & Schedule Improvements	"	N/A	N/A
Cultural Resources	"	N/A	N/A
Doc. Control/Procedure Mgmt.	"	N/A	N/A
Emergency, Security & Safeguards	See above.	N/A	N/A
Engineering Services	"	N/A	N/A
Environmental Compliance	"	N/A	N/A
Environmental Monitoring	"	N/A	N/A
ES&H/RAD Operations	"	N/A	N/A
ES&H/RAD Programmatic	"	N/A	N/A
Field Procurement	"	N/A	N/A
Finance	"	N/A	N/A
Human Resources	"	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

Emergency Services, Security & Safeguards

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Industrial Relations	Provide information and interact with Security/EM Services as requested.	N/A	N/A
Information Management	"	"	"
Infrastructure Services	"	"	"
• Facility Engineering			
• Facility Services			
• Maintenance			
• Transportation			
• Utilities			
Internal Audit	"	"	"
Legal Affairs	"	"	"
Materials Control & Account.	"	"	"
Operations Assurance	"	"	"
Project Controls	"	"	"
Property Management	"	"	"
Public Affairs	"	"	"
QA Programmatic	"	"	"
QC Operations	"	"	"
Records Management	"	"	"
Sample Data Management	"	"	"
Site Closure Planning & Integration	"	"	"
Stewardship Planning	"	"	"
Technology Program	"	"	"
Training	"	"	"
WAO	"	"	"
Workforce Restructuring	"	"	"

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FUNCTIONAL RESPONSIBILITIES

Emergency Services, Security & Safeguards

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Construction Support Contractor	Provide information and interact with Security/EM Services as requested.	N/A	N/A
Waste Pits	"	N/A	N/A
D&D	"	N/A	N/A
Soils/OSDF	"	N/A	N/A
Silos	"	N/A	N/A
Aquifer Restoration Project	"	N/A	N/A
Waste Generator Services: LLW & Waste Treatment	"	N/A	N/A
Nuclear Material Disposition	"	N/A	N/A

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FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Fire Protection (FP)
Functional Area Manager: Pat Kraps
Project/Program: Environment, Safety, Health and Quality

- I. List scope provided within your own central/core group's budgeted scope.**
 - This functional area includes requirements for prevention of fire, or explosion, fire protection and suppression systems, and personnel safety during a fire.
 - The primary focus is directed to improve risk at the site and facilities.
 - The boundary of FP is in the equipment, construction features and actions required to prevent, control and suppress a fire or explosion, and design features required for personnel evacuation.
 - Requirements apply to equipment and personnel on-site and do not apply to off-site emergency response units such as the mutual aid fire departments.

- II. List scope/expertise administratively provided to the site that is costed to the "Project".**
 - Fire protection engineering, design review and facility modifications as necessary. This function accounts for approximately 0.5 FTE per fiscal year.

- III. List scope/expertise provided to the site that is managed by and costed to the "Project".**
 - None.

FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Emergency Preparedness and Management (EM)
Functional Area Manager: Pat Kraps
Project/Program: Environment, Safety, Health and Quality

I. List scope provided within your own central/core group's budgeted scope.

Implementation of DOE O 151.1 and elements of DOE O 232.1, to include:

- Program elements for an operational emergency hazardous materials program such as emergency response organization, offsite response interfaces, emergency classification, communication, consequence assessment, protective actions, medical support, public information, emergency facilities and equipment and program administration.
- EM functional area encompasses both on-site and off-site emergency management and preparedness activities.
- EM provides the final barrier of the defense-in-depth concept for ensuring the safety and health of workers and the public and for protecting property and the environment in the event of an emergency.
- This functional area includes SARA reporting and meteorological monitoring.

II. List scope/expertise administratively provided to the site that is costed to the "Project".

- Centralized function – Budget by EM organization. Need to communicate with projects to identify expectations. Projects may budget for special services as needed.

III. List scope/expertise provided to the site that is managed by and costed to the "Project".

- None.

FUNCTIONAL RESPONSIBILITIES

Site Closure Planning & Integration

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Site Closure Planning & Integration	<ol style="list-style-type: none"> 1. Strategic Planning & Management of Site Closure Plan. 2. Baseline development/management. (Baseline maintenance is by Project Control) 3. Site Integration. 4. Implementation Oversight. 5. Budget & Funding Coordination. 6. Provide site wide relocation strategy. 7. Coordinate Manpower Planning Program for projects and support departments. 8. Project Review Management. 9. Management Cost Opportunity and Risk Management. 10. Change Central Management. 	Project Managers	C
Support Organizations:			
Administration	<ol style="list-style-type: none"> 1. Provide information as required. 2. Develop plans, needs, workarounds, etc. as required to support Site Closure Plan. 	N/A	N/A
Analytical Lab Services	"	"	"
Contracts & Acquisition (Prime Contract)	"	"	"
Cost & Schedule Improvements	"	"	"
Cultural Resources	"	"	"
Doc. Control/Procedure Mgmt.	"	"	"
Emergency, Security & Safeguards	"	"	"
Engineering Services	"	"	"
Environmental Compliance	"	"	"
Environmental Monitoring	"	"	"
ES&H/RAD Operations	"	"	"
ES&H/RAD Programmatic	"	"	"

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FUNCTIONAL RESPONSIBILITIES

Site Closure Planning & Integration

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Field Procurement	1. Provide information as required. 2. Develop plans, needs, workarounds, etc. as required to support Site Closure Plan.	N/A	N/A
Finance	"	N/A	N/A
Human Resources	"	N/A	N/A
Industrial Relations	"	N/A	N/A
Information Management	"	N/A	N/A
Infrastructure Services <ul style="list-style-type: none"> • Facility Engineering • Facility Services • Maintenance • Transportation • Utilities 	"	N/A	N/A
Internal Audit	"	N/A	N/A
Legal Affairs	"	N/A	N/A
Materials Control & Account.	"	N/A	N/A
Operations Assurance	"	N/A	N/A
Project Controls	"	N/A	N/A
Property Management	"	N/A	N/A
Public Affairs	"	N/A	N/A
QA Programmatic	"	N/A	N/A
QC Operations	"	N/A	N/A
Records Management	"	N/A	N/A
Sample Data Management	"	N/A	N/A
Site Closure Planning & Integration	See above.	N/A	N/A
Stewardship Planning	"	N/A	N/A
Technology Program	"	N/A	N/A
Training	"	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

Site Closure Planning & Integration

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
WAO	1. Provide information as required. 2. Develop plans, needs, workarounds, etc. as required to support Site Closure Plan.	N/A	N/A
Workforce Restructuring	"	N/A	N/A
Construction Support Contractor	"	N/A	N/A
Waste Pits	"	N/A	N/A
D&D	"	N/A	N/A
Soils/OSDF	"	N/A	N/A
Silos	"	N/A	N/A
Aquifer Restoration Project	"	N/A	N/A
Waste Generator Services: LLW & Waste Treatment	"	N/A	N/A
Nuclear Material Disposition	"	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

Stewardship Planning

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Stewardship Planning	1. Stewardship Planning Policy and Procedure Management 2. Develop strategic and comprehensive long-term Stewardship Plan and update as required. 3. Interface with government agencies, FCAB and other stakeholders on Stewardship Planning matters.	1. Program Mgr. 2. Tech Program Support Rep.	C C
Support Organizations:			
Administration	None.	N/A	N/A
Analytical Lab Services	None.	N/A	N/A
Contracts & Acquisition (Prime Contract)	None.	N/A	N/A
Cost & Schedule Improvements	None.	N/A	N/A
Cultural Resources	None.	N/A	N/A
Doc. Control / Procedure Mgmt.	None.	N/A	N/A
Emergency, Security & Safeguards	None.	N/A	N/A
Engineering Services	None.	N/A	N/A
Environmental Compliance	None.	N/A	N/A
Environmental Monitoring	None.	N/A	N/A
ES&H/RAD Operations	None.	N/A	N/A
ES&H/RAD Programmatic	None.	N/A	N/A
Field Procurement	None.	N/A	N/A
Finance	None.	N/A	N/A
Human Resources	None.	N/A	N/A
Industrial Relations	None.	N/A	N/A
Information Management	None.	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

Stewardship Planning

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Infrastructure Services <ul style="list-style-type: none"> • Facility Engineering • Facility Services • Maintenance • Transportation • Utilities 	None.	N/A	N/A
Internal Audit	None.	N/A	N/A
Legal Affairs	None.	N/A	N/A
Materials Control & Account.	None.	N/A	N/A
Operations Assurance	None.	N/A	N/A
Project Controls	None.	N/A	N/A
Property Management	None.	N/A	N/A
Public Affairs	None.	N/A	N/A
QA Programmatic	None.	N/A	N/A
QC Operations	None.	N/A	N/A
Records Management	None.	N/A	N/A
Sample Data Management	None.	N/A	N/A
Site Closure Planning & Integration	None.	N/A	N/A
Stewardship Planning	See above.	N/A	N/A
Technology Program	None.	N/A	N/A
Training	None.	N/A	N/A
WAO	None.	N/A	N/A
Workforce Restructuring	None.	N/A	N/A
Construction Support Contractor	None.	N/A	N/A
Waste Pits	None.	N/A	N/A
D&D	None.	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

Stewardship Planning

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Soils/OSDF	None.	N/A	N/A
Silos	None.	N/A	N/A
Aquifer Restoration Project	None.	N/A	N/A
Waste Generator Services: LLW & Waste Treatment	None.	N/A	N/A
Waste Management	None.	N/A	N/A

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FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Stewardship Management
Functional Area Manager: W. Eric Woods
Project/Program: Closure Project Management

- I. List scope provided within your own central/core group's budgeted scope.**
 - Develop Long-Term Stewardship (LTS) Strategic Plans for FEMP.
 - Develop Comprehensive LTS plan for FEMP.
 - Manage initiatives to support LTS planning at the FEMP (e.g., LTS Records Project).
 - Serve as technical point of contact for Agencies, FCAB and other Stakeholders on LTS issues.
 - Develop all documentation and technical positions related to future use of the FEMP.
 - Serve as technical point of contact for Agencies, FCAB and other Stakeholders on future land use and public use issues.
 - Facilitate negotiations to resolve Natural Resource claim between State of Ohio and DOE.
 - Facilitate all negotiations between Natural Resource Trustees and DOE regarding future natural resource work at Fernald.
 - Develop weekly updates to the Agencies on status of FEMP projects.
 - Resolve technical issues with the Agencies on key issues as required.
 - Provide technical support to Soil and Disposal Facility Project (SDFP) on future land use and public use issues to support project planning.
 - Work with SDFP related to planning and implementing future stewardship requirements related to the OSDF and certified areas.
- II. List scope/expertise administratively provided to the site that is costed to the "Project".**
 - Centralized function – Budget by Stewardship Planning organization. Need to communicate with projects to identify expectations. Projects may budget for special services as needed.
- III. List scope/expertise provided to the site that is managed by and costed to the "Project".**
 - None.

FUNCTIONAL RESPONSIBILITIES

Technology Programs

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Technology Programs	1. Manage University Program. 2. Develop and provide oversight for new technology. 3. Interface with DOE on technology programs. 4. Manage intern program.	Project Manager	C
Support Organizations:			
Administration	Provide information and interact with Technology Programs as requested.	N/A	N/A
Analytical Lab Services	"	N/A	N/A
Contracts & Acquisition (Prime Contract)	"	N/A	N/A
Cost & Schedule Improvements	"	N/A	N/A
Cultural Resources	"	N/A	N/A
Doc. Control/Procedure Mgmt.	"	N/A	N/A
Emergency, Security & Safeguards	"	N/A	N/A
Engineering Services	"	N/A	N/A
Environmental Compliance	"	N/A	N/A
Environmental Monitoring	"	N/A	N/A
ES&H/RAD Operations	"	N/A	N/A
ES&H/RAD Programmatic	"	N/A	N/A
Field Procurement	"	N/A	N/A
Finance	"	N/A	N/A
Human Resources	"	N/A	N/A
Industrial Relations	"	N/A	N/A
Information Management	"	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

Technology Programs

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Infrastructure Services <ul style="list-style-type: none"> • Facility Engineering • Facility Services • Maintenance • Transportation • Utilities 	Provide information and interact with Technology Programs as requested.	N/A	N/A
Internal Audit	"	"	"
Legal Affairs	"	"	"
Materials Control & Account.	Provide information and interact with Technology Programs as requested.	N/A	N/A
Operations Assurance	"	"	"
Project Controls	"	"	"
Property Management	"	"	"
Public Affairs	"	"	"
QA Programmatic	"	"	"
QC Operations	"	"	"
Records Management	"	"	"
Sample Data Management	"	"	"
Site Closure Planning & Integration	"	"	"
Stewardship Planning	"	"	"
Technology Program	See above.	"	"
Training	Provide information and interact with Technology Programs as requested.	N/A	N/A
WAO	"	"	"
Workforce Restructuring	"	"	"
Construction Support Contractor	"	"	"

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FUNCTIONAL RESPONSIBILITIES

Technology Programs

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Waste Pits	Provide information and interact with Technology Programs as requested.	N/A	N/A
D&D	"	N/A	N/A
Soils/OSDF	"	N/A	N/A
Silos	"	N/A	N/A
Aquifer Restoration Project	"	N/A	N/A
Waste Generator Services: LLW & Waste Treatment	"	N/A	N/A
Waste Management	Provide information and interact with Technology Programs as requested.	N/A	N/A

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FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Technology Programs
Functional Area Manager: Paul Pettit
Project/Program: Closure Project Management

- I. List scope provided within your own central/core group's budgeted scope.**
 - Identify needs for new technologies required or desired by Fernald Projects for support of their mission.
 - Validate Project needs for new technology.
 - Achieve concurrence from Projects on the approach to satisfying needs for new technology.
 - Identify and evaluate options for new technologies for satisfying Project needs.
 - Achieve concurrence from Stakeholders on approach to filling needs for new technology.
 - Specify technical requirements for the scope of work for acquisition of new technologies and for demonstrations.
 - Prepare Proposals for the support of technology demonstrations and deployments by DOE Office of Science and Technology.
 - Prepare Technical Task Plans for demonstrations and deployments of new technology and related support.
 - Prepare and/or oversee appropriate reports on the results of technology demonstration and deployments.
 - Manage Technical University Program and coordinate Intern Program.
- II. List scope/expertise administratively provided to the site that is costed to the "Project".**
 - Centralized function – Budget by Technology Programs organization. Need to communicate with projects to identify expectations. Projects must budget for special services as needed.
- III. List scope/expertise provided to the site that is managed by and costed to the "Project".**
 - None, except for Interns provided to projects.

FUNCTIONAL RESPONSIBILITIES

Training (included in Program Support)

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Training	1. Manage and maintain site Compliance Training Program. 2. Provide special training as required by projects or departments. 3. Follow up training of operators for Waste Pits and Silos 1&2. 4. Initial operator training Silos 1&2.	Training Rep Training Mgr.	M
Support Organizations:			
Administration	1. Coordinate training of department/project employees. 2. Request and provide technical input for special training programs.	Support Org. Staff (Responsible for coordination of training with the specific org.)	P
Analytical Lab Services	"	"	P
Contracts & Acquisition (Prime Contract)	"	"	P
Cost & Schedule Improvements	"	"	
Cultural Resources	"	"	P
Doc. Control/Procedure Mgmt.	"	"	P
Emergency, Security & Safeguards	"	"	P
Engineering Services	"	"	P
Environmental Compliance	"	"	P
Environmental Monitoring	"	"	P
ES&H/RAD Operations	"	"	P
ES&H/RAD Programmatic	"	"	P
Field Procurement	"	"	P
Finance	"	"	P
Human Resources	"	"	P
Industrial Relations	"	"	P

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FUNCTIONAL RESPONSIBILITIES

Training (included in Program Support)

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Information Management	1. Coordinate training of department/project employees. 2. Request and provide technical input for special training programs.	Support Org. Staff (Responsible for coordination of training with the specific org.)	P
Infrastructure Services	"	"	P
• Facility Engineering	"	"	
• Facility Services	"	"	
• Maintenance	"	"	
• Transportation	"	"	
• Utilities	"	"	
Internal Audit	"	"	P
Legal Affairs	"	"	P
Materials Control & Account.	"	"	P
Operations Assurance	"	"	P
Project Controls	"	"	P
Property Management	"	"	P
Public Affairs	"	"	P
QA Programmatic	"	"	P
QC Operations	"	"	P
Records Management	"	"	P
Sample Data Management	"	"	P
Site Closure Planning & Integration	"	"	P
Stewardship Planning	"	"	P
Technology Program	"	"	P
Training	"	"	P
WAO	"	"	P

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FUNCTIONAL RESPONSIBILITIES

Training (included in Program Support)

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Workforce Restructuring	1. Coordinate training of department/project employees. 2. Request and provide technical input for special training programs.	Support Org. Staff (Responsible for coordination of training with the specific org.)	P
Construction Support Contractor	"	"	P
Waste Pits	1. Coordinate training of department/project employees. 2. Request and provide technical input for special training programs. 3. Follow up training for operators	"	N/A
D&D	"	"	P
Soils/OSDF	"	"	P
Silos	1. Coordinate training of department/project employees. 2. Request and provide technical input for special training programs. 3. Follow up training for Silo 1&2 after operations commence. 4. Initial training for Silo 1&2 Operations.	1&2 - Support Org. Staff (Responsible for coordination of training with the specific org.) 3. NA 4. Training Rep	1&2 - M 3. P 4. M
Aquifer Restoration Project	"	"	P
Waste Generator Services: LLW & Waste Treatment	"	"	P
Nuclear Material Disposition	"	"	P

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FUNCTIONAL RESPONSIBILITIES

Waste Acceptance Organization (WAO)

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Project Support: WAO	1. WAO Program 2. EPA Interface 3. Provide Waste Acceptance function for projects listed below	Waste Eng. Mgr. Waste Eng. Tech Program Support Rep	C C C
Support Organizations:			
Administration	None.	N/A	N/A
Analytical Lab Services	None.	N/A	N/A
Contracts & Acquisition (Prime Contract)	None.	N/A	N/A
Cost & Schedule Improvements	None.	N/A	N/A
Cultural Resources	None.	N/A	N/A
Doc. Control/Procedure Mgmt.	None.	N/A	N/A
Emergency, Security & Safeguards	None.	N/A	N/A
Engineering Services	None.	N/A	N/A
Environmental Compliance	None.	N/A	N/A
Environmental Monitoring	None.	N/A	N/A
ES&H/RAD Operations	None.	N/A	N/A
ES&H/RAD Programmatic	None.	N/A	N/A
Field Procurement	None.	N/A	N/A
Finance	None.	N/A	N/A
Human Resources	None.	N/A	N/A
Industrial Relations	None.	N/A	N/A
Information Management	None.	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

Waste Acceptance Organization (WAO)

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Infrastructure Services	None.	N/A	N/A
• Facility Engineering			
• Facility Services			
• Maintenance			
• Transportation			
• Utilities			
Internal Audit	None.	N/A	N/A
Legal Affairs	None.	N/A	N/A
Materials Control & Account.	None.	N/A	N/A
Operations Assurance	None.	N/A	N/A
Project Controls	None.	N/A	N/A
Property Management	None.	N/A	N/A
Public Affairs	None.	N/A	N/A
QA Programmatic	None.	N/A	N/A
QC Operations	None.	N/A	N/A
Records Management	None.	N/A	N/A
Sample Data Management	None.	N/A	N/A
Site Closure Planning & Integration	None.	N/A	N/A
Stewardship Planning	None.	N/A	N/A
Technology Program	None.	N/A	N/A
Training	None.	N/A	N/A
WAO	See above.	N/A	N/A
Workforce Restructuring	None.	N/A	N/A
Construction Support	None.	N/A	N/A
Contractor		N/A	N/A
Waste Pits	Certify materials sent to Envirocare.	WAO Tech.	C in WAO

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FUNCTIONAL RESPONSIBILITIES

Waste Acceptance Organization (WAO)

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
D&D	Certify material sent to OSDF and documentation.	WAO Tech.	C in WAO
Soils/OSDF	Certify excavation material and material placed in OSDF.	WAO Tech.	C in WAO
Silos	None.	N/A	N/A
Aquifer Restoration Project	None.	N/A	N/A
Waste Generator Services: LLW & Waste Treatment	None.	N/A	N/A
Nuclear Material Disposition	None.	N/A	N/A

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FUNCTIONAL SCOPE: BUDGET ACCOUNTABILITY

Functional Area: Waste Acceptance Organization
Functional Area Manager: Sue Lorenz
Project/Program: Maintenance and Infrastructure Support

I. List scope provided within your own central/core group's budgeted scope.

- Procedure maintenance.
- Container management for soil.
- Maintain OSDF Placement Record.
- IIMS database maintenance.
- Stockpile drawing preparation and update.
- Validation of records.
- Validation of data entry.
- Inspect stockpiles for compliance.
- RA-17 and Renegade Soils Stockpile management/maintenance.
- Oversight of waste placement into the OSDF for WAC compliance.
- Review all OSDF manifests for completeness and WAO certification.
- Maintain PWID component of FEMP Operating Record.
- OSDF manifest IIMS data entry.
- Gatekeeper authority for transfer of material into and out of the WPRAP Transfer Area.
- Oversight of WAO Operations for WPRAP.
- Full time field oversight of remedial action activities including soil, debris and ancillary material for certification.
- OSDF waste compliance.
- Soil excavation radiation and IH monitoring.
- PWID preparation.
- Manifest preparation for soil and debris.
- Determine disposition of debris to OSDF, NTS, WPRAP.
- Waste Pit profile preparation for Envirocare.
- Review all post IRPD or IMP plan design changes in order to ensure continued compliance with WAC.
- Prepare OSDF waste profiles.
- Non-typical material WAC compliance.

II. List scope/expertise administratively provided to the site that is costed to the "Project".

- Centralized function – Budget by Waste Acceptance Organization. Need to communicate with projects to identify expectations. Projects may budget for special services as needed.

III. List scope/expertise provided to the site that is managed by and costed to the "Project".

- None.

FUNCTIONAL RESPONSIBILITIES

Waste Generator Services: Interface with Projects

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
I. WGS Program	<ol style="list-style-type: none"> 1. Waste Management program management. 2. Waste Management policy and procedure management. 	Waste Engineer Mgr. Waste Engineer	C C
II. WGS – Project Services: Inventory Disposition and Task Order Planning	<ol style="list-style-type: none"> 1. Develop disposal plan and task orders for projects. 2. Provide container specifications. 	Waste Engineer Mgr. Waste Engineer	C C
III. WGS – Project Services: Characterization	<ol style="list-style-type: none"> 1. Sampling and analysis. 2. Field visual verification of waste. 3. Container absorbent determination. 4. Final characterization determination. 	WGS Resources	M
IV. WGS – Project Services: Waste Processing	<ol style="list-style-type: none"> 1. Venting/decanting of containers. 2. Real time radiography. 3. Treatment. 4. Sorting and consolidation. 	WGS Resources	M
V. WGS – Project Services: Packaging	<ol style="list-style-type: none"> 1. Project specific container specification development and procurement process. 2. Container movement. 3. Packaging/re-packaging. 	WGS Resources	M

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FUNCTIONAL RESPONSIBILITIES

Waste Generator Services: Interface with Projects

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
VI. WGS – Project Services: Loading/Shipping	1. Container preparation and loading.	WGS Resources	M
	2. Transportation costs.		
	3. Traffic support.	TBD	
	4. Pick up packaged drums of excess lab samples and sample analysis waste and disposition.		C
VII. Decon Services	1. Provide decon services to site.	WGS Resources	C
Support Organizations:			
Administration	None.	N/A	N/A
Analytical Lab Services	Drumming of excess samples and sample analysis waste.	N/A	C by ALS
Contracts & Acquisition (Prime Contract)	None.	N/A	N/A
Cultural Resources	None.	N/A	N/A
Doc. Control/Procedure Mgmt.	None.	N/A	N/A
Emergency, Security & Safeguards	None.	N/A	N/A
Engineering Services	None.	N/A	N/A
Environmental Compliance	None.	N/A	N/A
Environmental Monitoring	None.	N/A	N/A
ES&H/RAD Operations	None.	N/A	N/A
ES&H/RAD Programmatic	None.	N/A	N/A
Field Procurement	None.	N/A	N/A
Finance	None.	N/A	N/A
Human Resources	None.	N/A	N/A
Industrial Relations	None.	N/A	N/A
Information Management	None.	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

Waste Generator Services: Interface with Projects

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Infrastructure Services <ul style="list-style-type: none"> • Facility Engineering • Facility Services • Maintenance • Transportation • Utilities 	None.	N/A	N/A
Internal Audit	None.	N/A	N/A
Legal Affairs	None.	N/A	N/A
Materials Control & Account.	None.	N/A	N/A
Operations Assurance	None.	N/A	N/A
Operations Readiness	None.	N/A	N/A
Project Controls	None.	N/A	N/A
Property Management	None.	N/A	N/A
Public Affairs	None.	N/A	N/A
QA Programmatic	None.	N/A	N/A
QC Operations	None.	N/A	N/A
Records Management	None.	N/A	N/A
Sample Data Management	None.	N/A	N/A
Site Closure Planning & Integration	None.	N/A	N/A
Stewardship Planning	None.	N/A	N/A
Technology Program	None.	N/A	N/A
Training	None.	N/A	N/A
WAO	None.	N/A	N/A
Workforce Restructuring	None.	N/A	N/A
Construction Support: Contractor	None.	N/A	N/A

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FUNCTIONAL RESPONSIBILITIES

Waste Generator Services: Interface with Projects

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Waste Pits	I. All Waste Pit waste material: 1. Excavate, treat, load, ship, and transport.	Item #1 Not listed	P
	2. Validate shipping papers.	Item #2 Waste Engineer	M
	II. Non-typical material: 1. Inventory disposition and task planning. (see page 1 for details)	Waste Engineer	C
	2. Characterization (see page 1 for details)	WGS to provide resources.	M
	3. Packaging (see page 1 for details)	WGS to provide resources.	M
	4. Loading/Shipping (see page 1 for details)	WGS to provide resources.	M
	5. Budgeting disposal costs		P
	I. Offsite Debris Disposal 1. Inventory disposition and task planning (see page 1 for details)	Waste Engineer	C
	2. Characterization (see page 1 for details)	WGS to provide resources.	M
	3. Packaging (see page 1 for details)	WGS to provide resources.	M
D&D	4. Loading/Shipping (see page 1 for details)	WGS to provide resources.	M
	5. Disposal costs budgeting	WGS to provide resources.	P
	II. Onsite Debris Movement from complex to staging area. 1. Loading ROB (if applicable)	Project resources	P
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FUNCTIONAL RESPONSIBILITIES

Waste Generator Services: Interface with Projects

Organization	Primary Responsibility	Key Resource	Assignment P, M, C *
Soils/OSDF	2. Movement of ROB to staging area, dumping ROB and return of ROB to complex.	WGS to provide resources.	M
	3. Movement of other storage containers to staging area and return of empties to complex.	WGS to provide resources.	M
	I. Below WAC to OSDF.	Project resources	P
	II. Above WAC to Envirocare.	Project & Waste Pit resources	P
	III. Requires insitu treatment.	Project resources	P
	IV. Treat offsite or ship to NTS.	WGS to provide resources.	M
	1. Characterization (see page 1 for details)		
	2. Packaging (see page 1 for details)	WGS to provide resources.	M
	3. Loading/Shipping (see page 1 for details)	WGS to provide resources.	M
	4. Budgeting Disposal Costs	N/A	P
Silos	None.	N/A	N/A
Aquifer Restoration Project	See typical list page 1	WGS Resources	M
Waste Generator Services: LLW & Waste Treatment	See typical list page 1	WGS Resources	C
Nuclear Materials Disposition	See typical list page 1	WGS Resources	C

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Manpower Planning for the Basis-of-Estimate

Overview

The purpose of comprehensively planning manpower in the baseline is to detail and document the plan for human resources needed to accomplish the new Closure Contract's scope of work within the designated schedule and budget. The time-phased manpower plan is an important and integral part of baseline management and change control. The Project & Program Managers (PM) are responsible for planning the manpower needed for their area of responsibility and are the "owners" of the manpower planning process. The process begins with each PM developing a full understanding of the details of his scope of work and its associated schedule and eventually its budget. The PMs must be intimately aware of the detailed performance of work to accomplish their scope and be familiar with all the resources available to perform the work, including human resources. The manpower planning process described herein is the way the PMs will document what they believe is their human resource needs and how these needs will then be rolled up and reviewed at the Executive Management level. This process also will familiarize the PMs with the importance of documenting their human resource needs and its links to other Closure Contract management efforts.

Planning Tools

Two tools have been developed to facilitate the preparation and management of a Closure Contract manpower plan. The first tool is a new set of 116 Manpower Planning Titles with simple, succinct job descriptions. These descriptions also reference the codes of the more detailed 400+ Human Resource and Compensation job and skills descriptions. The manpower is planned by applying the Manpower Planning Titles to the performance of work scopes. The Manpower Planning Titles are common titles being used in all our Project Controls, Project Management, and Human Resource management systems.

The second tool is the computerized Manpower Planning System (MPS) with its associated User Manual. The MPS is a computerized database of the entire Closure Contract's scope of work and the target schedule. It's designed to facilitate a PM's effort to develop and track their manpower needs based on the "physical drivers" of the work and the associated work schedule. The "physical drivers" are input into the MPS and are directly related to Charge Numbers or their sub-tasks. The "physical drivers" are the scopes of work being performed on the FEMP that require a specific level of manpower assigned on a specific schedule. These "drivers" are extracted directly from the Primavera P³ Site Master Schedule. The MPS will have "physical drivers" and target schedule information pre-loaded. (These can be changed by the MPS Administrator.) Training on the use of the MPS is available to managers and/or their designees. Refer to the MPS Users Manual for full details on this new computerized tool.

Planning Process

As PMs and supporting managers develop the details of their scope of work and its schedule, they must also conceive of the performance of the work by tasks, which will bring to bear specific resources for successful performance. In order to document the manpower resources planned for the conceived performance, the manager must utilize the Manpower Planning Titles.

Manpower Planning for the Basis-of-Estimate

The MPS allows the manager to load manpower, by Manpower Planning Titles, at the task or charge number level. Refer to the MPS Users Manual for specifics on loading manpower estimates.

Review Process

After the PM has developed, internally reviewed and approved their Manpower as documented in the MPS, the manpower is then rolled-up, within the MPS. It is then reviewed at the next higher level of the FF organization, typically the Division or Project Director level. Adjustments may be needed within Divisions based on integration and sharing of resources. After these adjustments have been made and approved the manpower is then rolled-up to the FEMP Site level and reviewed at the FF Executive Management level for integration and adjustment company-wide.

Once the manpower plan for the entire contract, as documented in the MPS, has been approved at the Executive level, the planned human resource data can be made available to the Project Controls Department for input into MPM for the baseline budget development process. MPM "rates" for all Manpower Planning Titles are developed by Estimating for MPM cost calculations. The resultant impacts of the manpower plan on costs, developed in MPM, must then be reviewed to determine if there are any serious problems with the budget.

Implementation and Change Management

After there is agreement that the manpower plan is acceptable, the data from the final plan can be combined with other cost data in the Project Controls System (PCS) to allow management of the FEMP work. When there are new or significantly changed scopes of work or schedule changes, for whatever reason, the manpower plan must be adjusted, reviewed, approved and re-input into the PCS via the change proposal process.

The MPS can model the affect of manpower changes before any modification of the baseline. Because the system is independent of the operation of the PCS, the MPS is a helpful tool in understanding the impacts of proposed schedule accelerations or delays and scope additions as well as funding change impacts.

Other Management Tie-ins

The manpower quantity and distribution data resulting from the approved manpower plan, as documented in the MPS, can become available for other project and program management efforts. Significant tie-ins exist to the management of human resources by the Staff Optimization Team, Professional Development, HR Resources Management and the Workforce Restructuring. Other tie-ins exist to site facility infrastructure configuration and utilities capacity needs.

Manpower Planning for the Basis-of-Estimate

Explanation of Manpower Planning HR Resource Title and Relation to Compensation Job Classifications

General philosophy behind comparing manpower planning sheet related HR Resource Title definitions with Salaried Job Classification and Wage Job descriptions.

The new Manpower Planning HR Resource Titles are developed with a goal of establishing manpower planning and job performance management through project closure. The philosophy is premised on the concept that manpower must be selected to complete work scope tasks (WBS) based on the functional skills needed as defined by Project Managers and as related to the organizational structure (OBS) in place at the time of the manpower plan.

The specific descriptions of the jobs for each salary Manpower Planning HR Resource Title is a combination of the short job description in the attached table and the referenced Job Code descriptions of our existing 400+ HR/Compensation Job Classifications titles. The hourly wage title descriptions are short versions of wage position descriptions provided by Industrial Relations. There will now be 84 salary job titles and 32 hourly wage job titles Manpower Planning Titles that define all the human resources that are available for Project managers to plan for completion of work scope.

By Manpower Planning HR Resource Title nomenclature, all human resources at FEMP fall into the following five logical groupings:

- The *Hourly Wage* grouping includes all the Represented workers with job category titles that coincide with the job descriptions in the Labor Agreements.
- The *Technician* grouping includes all the non-exempt salary job titles and the entry-level technical practitioner job descriptions. Examples are Clerks, skilled Technicians, Secretaries, Draftsmen, etc.
- The *Representative* grouping includes all the experienced technical practitioners of specific functional skills. It includes all the more experienced Specialist, the Sr. Specialist and the Principle Specialist positions.
- The *Middle Management* grouping includes all the jobs where Team leadership within Programs or Projects is the primary common job description. It includes all the Supervisor and Manager positions.
- The *Senior Leadership* grouping is the top leadership in both Programs and Projects. It includes Program and Project Managers as well as Executive Management positions.

Information on the HR Compensation Job Classifications is on the FEMP Intranet

On the Intranet Home Page, <http://keymaster/home.asp>, under the menu heading **Reference**, in menu item **Misc Site Info**, is an Adobe Acrobat (*.pdf) file with several menu options. Within the option **Human Resources Job Descriptions**, is a listing of the HR Job Families, each of which is a link to the job descriptions of the job classifications for that Family and Job Code.

***Manpower Planning HR Resource Title Descriptions
and Included Job Classification Codes***

Manpower Planning HR Resource Title	Short Job Description SALARY
Account Analyst	Performs accounting/finance functions including financial management, payroll, accounts payable, and accounting records. Includes job codes with the prefix AB & AA suffix PT, TE, TS, ME, & MD.
Account Manager	Oversees the performance of all accounting/finance functions including project financial management, payroll, accounts payable and accounting records. Supervise ACCT/ANALYST. Includes job codes ABTC, AATC, ABTL, and AATL.
Administrative Manager	Oversees implementation of programs for printing, copying, mail, courier, and office equipment procurement, maintenance and services. Supervise DEPT ADMIN and CLERKS. Includes job codes ADTC and ADTL.
Auditor	Oversees and implements Finance policy and procedure related to audits. Performs internal audit of finance systems and program activities. Includes job codes prefix AU suffix PT, TE, TS, ME, & MD and TC & TL.
Buyer	Perform material and service procurements including credit card purchases. Includes job codes prefix AP suffix PT, TE, TS, ME, & MD.
Buyer Manager	Oversees implementation of Procurement policy and procedures. Supervises BUYERS. Includes job codes APPC, APTC and APTL.
Chemist	Perform Analytical procedures. Perform analytical chemistry. Include job codes prefix TL suffix PT, TE, TS, ME, & MD.
Clerks	Perform clerical duties in administrative functions. Includes job codes prefix IM, AI, AF, OI, GT, AH, AP, AA, GM, GC, IR, ON, AT suffix MC, MB & MA
Communications Technician	Operates, controls, and monitors communication center equipment including cutting keys and maintain the essential record system. Includes Job Codes NYMC, NYMB, and NYMA.
Construction Coordinator	Liaison and coordinate all construction related efforts. Obtain all permits like penetration, excavation, energy isolation, etc. as required. Includes Job Codes prefix EO suffix PT, TE, TS, ME, & MD.
Construction Engineer	Implements Construction procedures, performs, and supports construction engineering techniques. Ensures technical implementation of contract in field including construction acceptance testing. Includes Job Codes prefix EC suffix PT, TE, TS, ME, & MD.
Construction Manager	Oversees planning, scheduling, contract management of all construction. Administer technical performance of subcontracts. Supervise EO & EC technical staff. Includes job codes EOTC, ECTC, EOTL, and ECTL.
Contract Administrator	Administer Prime Contract or Subcontractors and related activities. Includes job codes prefix AG suffix PT, TE, TS, ME, & MD.
Contracts Manager	Oversees implementation of Contracts Management. Supervises CONTAD. Includes job codes AGPC, AGTC and AGTL.

***Manpower Planning HR Resource Title Descriptions
and Included Job Classification Codes***

Manpower Planning HR Resource Title	Short Job Description SALARY
Cost Analyst	Perform Project Controls procedures related to costs. Perform baseline development, funding & budgeting, change control, cost/schedule analysis reports, Manpower planning. Includes job codes prefix TK suffix PT, TE, TS, ME, & MD.
Department Administrator	Performs Administrative procedures in assigned Project/Program. Performs administrative functions related to Mailing, Supplies, Forms, Equipment, Records, Telecom, Shipping, Property, Security and other office services. Includes job codes prefix AD suffix PT, TE, TS, ME, & MD.
Drafter/CAD Operator	Performs Engineering procedures related to drafting documents. Perform drafting and CADD. Includes job codes prefix ND suffix MC, MB, MA.
Engineer:	Performs procedures of Engineering. Performs general engineering design, project engineering and coordination. Includes job codes prefix EE, EN, & EP suffix PT, TE, TS, ME, & MD.
Engineer: Civil	Performs procedures of Engineering. Performs civil engineering and design. Includes job codes prefix EV suffix PT, TE, TS, ME, & MD.
Engineer: Electrical	Performs procedures of Engineering. Performs electrical design and engineering. Includes job codes prefix EL suffix PT, TE, TS, ME, & MD.
Engineer: Piping/Mech.	Performs procedures of Engineering. Performs mechanical and piping design and engineering. Includes job codes prefix EM suffix PT, TE, TS, ME, & MD.
Engineer: Process and Startup	Performs procedures of Engineering. Performs systems analysis, process design and engineering. Includes job codes prefix EW suffix PT, TE, TS, ME, & MD.
Engineer: Utilities	Performs procedures of Engineering. Performs utilities engineering and inspects & ensures maintenance of all utilities within responsibility. Includes job codes prefix EU suffix PT, TE, TS, ME, & MD.
Engineering and Construction Technician	Assist Technical/Engineering/Construction Representatives perform procedures of engineering, construction and technical tasks. Includes job codes prefix NC & NE suffix MC, MB, MA.
Engineering Manager	Oversees implementation of policy and procedures of Engineering. Supervise Engineers in Disciplines, Project Engineering, Engineering Coordination and General assignments. Includes job codes prefix EW, EE, EP suffix TC & TL.
Environmental Protection Manager	Oversee implementation of environmental regulatory compliance policy and procedures. Oversee emissions monitoring and assessments. Supervise ENV PROT REPRESENTATIVE. Includes TETC & TETL.
Environmental Protection Representative	Perform environmental protection and compliance procedures. Perform review and assessment of program requirements and audit compliance on emissions/discharges and hazardous material control. Includes job codes prefix TC & TE suffix PT, TE, TS, ME, & MD.

***Manpower Planning HR Resource Title Descriptions
and Included Job Classification Codes***

Manpower Planning HR Resource Title	Short Job Description SALARY
Environmental Science Manager	Oversee implementation of environmental monitoring, sampling and cultural resources policy and procedures. Supervise ENV SCIENCE, ENV SCNCE TECH. Includes job codes TVTC & TVTL.
Environmental Science Representative	Perform environmental monitoring, sampling and cultural resources and IEMP procedures. Conduct scientific studies and report results. Includes prefix TV suffix PT, TE, TS, ME, & MD.
Environmental Scientist Technician	Perform procedures of environmental monitoring, sampling cultural resources and IEMP. Operate and maintain environmental monitoring systems. Includes job codes NIMC, NIMB, NIMA.
Estimator	Perform Project Controls procedures related to estimating. Provide estimating services. Includes job codes prefix TN suffix PT, TE, TS, ME, & MD.
Executive Administrator	Support Leadership Team with office management and secretarial duties. Includes Job Code AEMD, AEME, & GEMC.
Fire Protection Engineer	Develop and implement fire protection programs and support emergency planning/preparedness. Includes job codes prefix TF suffix PT, TE, TS, ME, & MD.
Health Physicists	Provides technical assistance and guidance on radiological control issues. Includes job codes prefix TH suffix PT, TE, TS, ME, & MD.
Health Physics Technician	Participates in planning experiments related to measurements of radioactive materials. Includes job codes NHMC, NHMB, and NHMA.
Human Resource Manager	Oversees implementation of HR Policy and Procedures. Supervise HR REPRESENTATIVE Teams. Includes job codes AHTC & AHTL.
Human Resource Representative	Administers of HR procedures. Perform Employee Relations, Compensation, Benefits, CDC and Professional Development programs. Includes job codes prefix AH suffixes PT, TE, TS, ME, & MD.
Industrial Hygienist	Develops and implements programs, policies and procedures for monitoring and preventing chemical, physical, and biological hazards. Includes job codes prefix TG suffix PT, TE, TS, ME, & MD.
Industrial Hygienist Technician	Assists in industrial hygiene analyses and support. Includes job codes NGMC, NGMB, and NGMA.
Industrial Relations Manager	Oversees the administration of industrial relations functions. Includes job codes AITC and AITL.
Industrial Relations Representative	Administers industrial relations functions. Includes job codes prefix AI suffix PT, TE, TS, ME, & MD.
Information Records Manager	Administers activities which identify, collect, safeguard, retain, and control documents, drawings, records, and data required in the execution of company business. Includes job codes IRTC and IRTL.
Information Records Representative	Manages documents, records, drawings, and data for company projects. Includes job codes prefix IR suffix PT, TE, TS, ME, & MD.
Information Systems Manager	Oversees the installation, support, maintenance, development, and operation of computer or telecommunication hardware/software for the site. Includes job codes IMTC and IMTL.

***Manpower Planning HR Resource Title Descriptions
and Included Job Classification Codes***

Manpower Planning HR Resource Title	Short Job Description SALARY
Information Systems Representative	Perform the installation, support, maintenance, development, and operation of computer or telecommunication hardware/software for the site. Includes job codes prefix IM suffix PT, TE, TS, ME, & MD, and prefix NO suffix MC, MB, & MA.
Lab Manager	Oversees implementation of lab analytical policy, maintain procedures and manage compliance in lab. Supervise CHEMIST and LAB TECHNICIAN. Includes job codes TLTC and TLTL.
Lab Technician	Perform Analytical policy and procedures. Perform analytical support and maintain FACTS. Include Job Code NLMC, NLMB, and NLMA.
Lawyers	Oversees and implements Legal Program. Provide all legal interpretation, review and coordination related to regulation, contracts and litigation. Includes job codes prefix AL suffix PT, TE, TS, ME, & MD, and TC & TL.
Maintenance Manager	Oversees implementation of Site Maintenance policy and procedures. Supervise MAINT REPRESENTATIVE, support staff and hourly team members. Includes job codes prefix ON & OM suffix TC & TL.
Maintenance Representative	Performs procedures of Site Maintenance. Performs maintenance planning and maintenance of buildings and equipment. Includes job codes prefix ON & OM suffix PT, TE, TS, ME, & MD.
Material Property Control Manager	Oversees the supervision, direction, and coordination of all Nuclear material control activities. Includes job codes prefix AO suffix PC, TC, TL, & PT.
Material Property Control Representative	Supervises, directs, and coordinates all material control activities to support and account for all nuclear materials associated with the FEMP. Includes job codes prefix AO suffix TE, TS, ME, & MD, and MC, MB, & MA.
Medical Support	Applies nursing principles toward the health of workers including diagnostic testing and preventative guidance. Includes job codes prefix TM suffix TE, TS, ME, & MD.
Medical Technician	Assists physicians with patient care and clinical sessions, including scheduling appointments, preparing procedure rooms, and transporting blood and fluids to labs. Includes Job Code NMMB & NMMC.
Operations Manager	Oversees implementation of policy and procedures of Engineering and Operations. Supervise operations support staff and hourly team members doing operations tasks. Includes job codes OTTC & OTTL.
Photographer / Graphics Representative	Provides graphic and photographic services to entire site. Includes job codes prefix NT & NP suffix MC, MB, & MA.
Physician	Responsible for the Occupational Medicine Program including providing medical expertise and administering all aspects of the Medical Department. Includes job codes TMPC and TMPT.

***Manpower Planning HR Resource Title Descriptions
and Included Job Classification Codes***

Manpower Planning HR Resource Title	Short Job Description SALARY
Program Manager	Responsible for leadership and implementation of one or more Functional Org. or Program. Coaching of managers and representatives of the assigned Org/Prog. Includes job codes with prefix AW, TA, IR, TF, TR, IM, TG, AU, AF, AC, AS, AH, AB, AD, AI, AL, AA, TJ, EQ, AT, TC, TS, & TH, suffix PC and with prefix LT and suffix TD, AD, DA, TP, AM & AC.
Project Controls Manager	Oversees implementation of Project Controls policy and procedures in the performance of budget, cost and risk estimates, and schedule activities. Supervise COST ANALYST, ESTIMATOR, and SCHEDULER. Includes job codes prefix TJ suffix TC & TL.
Project Manager	Responsible for leadership and implementation of one or more Funct. Org. or Projects. Coaching of managers and representatives of the assigned Org/Proj. Includes job codes with prefix TL, EW, EE, EP, EC, OP, OT, OI, OM, EO, TV, TX, & TE, suffix PC and with prefix LT suffix EC, ED, DE, DT, SC, SD, TC.
Project Support Representative	Performs procedures of Site Project Support Services programs. Performs or supervises construction, operations, site services, porter, grounds and laundry tasks. Includes job codes prefix OP & OI suffix PT, TE, TS, ME, & MD.
Project Support Manager	Oversees implementation of Site Project Support Services programs. Supervise PROJ SUP REPRESENTATIVE. Includes job codes prefix OP & OI suffix TC & TL.
Public Affairs Manager	Oversees implementation of communications with external and internal stakeholders. Supervise PUB AFF REPRESENTATIVE and PHOTO/GRAPH. Includes job codes prefix AF suffix TC & TL.
Public Affairs Representative	Perform external and internal stakeholder communications. Perform Education Outreach, MMVS, media interface. Includes job codes prefix AF suffix PT, TE, TS, ME, & MD.
QA Engineer	Applies knowledge of quality assurance principles and practices in a range of division or project assignments and perform inspections. Includes job codes prefix EQ suffix PT, TE, TS, & ME.
QA Manager	Oversees the development, implementation, and maintenance of programs to ensure compliance with all regulations, laws, and ordinances and supplies Quality Assurance to projects and business units. Includes job codes prefix TC & EQ suffix TC & TL.
QC Inspector	Verifies vendor's compliance to purchase order specifications and quality requirements and perform inspections. Includes job codes EQMD, NQMC, NQMB, & NQMA.
Rad Engineer	Provides assistance and guidance on radiological control issues. Includes job codes prefix TR suffix PT, TE, TS, ME, & MD.

***Manpower Planning HR Resource Title Descriptions
and Included Job Classification Codes***

Manpower Planning HR Resource Title	Short Job Description SALARY
Rad Supervisor Manager	Oversees the monitoring of radiation levels in the environment and internal workplace to determine potential radiation hazards, using the appropriate instruments reporting results to management. Includes job codes TRTC and TRTL.
Radiation Technician	Monitors radiation levels in the environment and internal workplace to determine potential radiation hazards, using the appropriate instruments reporting results to management. Includes job codes NRMC, NRMB, and NRMA.
Safety & Health Manager	Oversee all of the programs to ensure personnel and facility safety. Includes job codes prefix TM, TH, TG, TF, & TA suffix TC & TL.
Safety Engineer	Develops and implements programs and procedures to ensure personnel and facility safety. Includes job codes prefix TA suffix PT, TE, TS, ME, & MD.
Safety Technician	Performs assigned tasks to accomplish and monitor the organization's industrial safety programs and standards, including fire systems, OSHA regulations, and servicing/testing safety equipment/systems. Includes job codes prefix NS & NF suffix MC, MB, & MA.
Schedulers	Perform Project Controls procedures related to scheduling. Publish and maintain Site Baseline schedule. Includes job codes prefix TP suffix PT, TE, TS, ME, & MD.
Secretaries	Perform secretarial and word processor tasks. Includes Job Codes prefix GS & GW suffix MC, MB and MA.
Security Representative	Establishes, maintains, and implements policies and procedures relating to safeguards and security. Performs as uniformed Security Police force, lock/key control, and support to the Emergency Plan. Includes job codes prefix AS suffix PT, TE, TC, TS, TL, ME, MD, MB, & MA.
Technical Writer	Oversees and implements the Technical Publications policy and procedures. Includes job codes prefix AW suffix TC & TL and PT, TE, TS, ME, & MD.
Technical/Program Support Manager	Oversees the implementation of assigned project/program policy and procedures. Supervise TECH/PRG REPRESENTATIVE in performance of analysis, decision making and strategy development especially on programmatic issues. Includes job codes TSTC & TSTL.
Technical/Program Support Representative	Performs the procedures of the assigned project/program. Perform analysis, decision making and strategy development especially on programmatic and controversial issues impacting company performance. Includes job codes prefix TS suffix PT, TE, TS, ME, & MD.
TQM Representative	Implements the Total Quality Management program. Includes job codes prefix AC suffix PT, TE, TS, ME, & MD, and TC, & TL.
Training Manager	Oversees the design, development, implementation, and maintenance of training programs and systems. Includes job codes ATTC and ATTL.

***Manpower Planning HR Resource Title Descriptions
and Included Job Classification Codes***

Manpower Planning HR Resource Title	Short Job Description SALARY
Training Representative	Determines needs, designs/develops systems, Performs programs/processes, conducts, and modifies/maintains training programs. Includes job codes prefix AT suffix PT, TE, TS, ME, & MD.
Waste Engineer	Develops, performs, and maintains programs and procedures to control the packaging, treatment, storage, transport, and disposal of environmentally hazardous materials, especially radioactive waste. Includes job codes prefix TX suffix PT, TE, TS, ME, & MD.
Waste Engineer Manager	Oversees the development, implementation, and maintenance of programs and procedures to control the packaging, treatment, storage, transport, and disposal of environmentally hazardous materials, especially radioactive waste. Includes job codes TXTC and TXTL.

***Manpower Planning Title Descriptions
and Included Job Classification Codes***

Manpower Planning HR Resource Title*	Short Job Description WAGE
Boiler operator helper	Assists Stationary Engineer in the operation of the boilers in the Power Plant. Includes checking/maintaining oil levels in bearings, chemicals in feed tanks, water analysis to determine hardness, alkalinity, sulphite etc., log readings of pressures, temperatures, flow, and inspection of floor sumps, fuel oil tanks, and salt brine tanks. Includes job code 0025 & 0026.
Carpenter	Perform general carpentry necessary to install, repair and maintain plant buildings, offices and furniture. Fabricate and repair wooden equipment like skids, crates, containers, signs, scaffolding, etc. Includes job code 0006 & 0082.
Chemical operator	Operates and supports Thermal Drying Unit and Waste Stabilization Systems. Includes monitoring equipment, trouble shooting problems and records operation status of equipment/processes. Includes job code 0009.
Electrician	Install and repair electrical wiring, machinery, equipment and fixtures. Analyze and diagnose electrical systems and problems. Includes job code 0022 and 0085.
Hazwat	Perform inspections, characterization sampling, preparation, and packaging of low level and hazardous waste for storage and/or shipping. Includes inspecting waste materials, products, and/or equipment to assure conformity to specification or performance and preparing proper paperwork/labeling. Includes job code 0010.
Heavy equipment operator	Operates a variety of electric, gasoline and diesel powered equipment. Includes verification of equipment for proper and safe operation. Includes job code 0030.
Industrial mechanic	Analyze and diagnose faulty operation then maintain and repair mobile plant equipment and vehicles. Operate emergency vehicles in accordance with established procedures. Includes job code 0032 & 0086.
Industrial vacuum loader operator	Operate and cleanout the Industrial Vacuum Loader Vehicle during cleanup/containment operations. Includes job code 0028.
Instrument mechanic	Install, maintain, calibrate and repair pneumatic, electronic, mechanical, and hydraulic measuring, recording and controlling instruments. Repair and maintain mechanical refrigeration control equipment. Includes job code 0034 and 0086.
Laborer, general	Performs duties such as moving furniture, mowing grass, building or repairing fences, repairing concrete or assisting in new concrete work, trash removal, snow removal, etc. Includes job code 0038.
Laborer, transportation	Performs duties such as unload/deliver drums, Green is Clean trash pickup, bracing/banding/shoring shipments, deliveries, escort Rumpke trucks, assist salt truck, etc. Includes job code 0037.

***Manpower Planning Title Descriptions
and Included Job Classification Codes***

Manpower Planning HR Resource Title*	Short Job Description WAGE
Laundry worker	Gather, launder, fold, repair, and issue company issued clothing/PPE. Operate laundry equipment and handle laundry chemicals. Includes job code 0039.
Locomotive/ Switchman	Operates locomotives to move all types of Railroad cars to designated locations on the company property. Manually operates track switches, couples, uncouples, and brakes railroad cars. Inspects gauges, meters, pipe lines, brakes, airlines, and rail tracks, including the ties and spikes. Includes job code 0088.
Machinist	Set up and operate varied machining equipment, both stationary and portable, such as lathes, milling and drilling machines, grinders and shapers. Includes job code 0046.
Mason	Repairs structural, architectural and machine components consisting of stone and stone like materials such as block, tile, refractories, concrete, plaster mortar, etc. Are required to install insulation and insulating paper materials. Includes job code 0048.
Millwright	Install, move, dismantle and maintain all types of machines and equipment. Balance, align and check operation of equipment to specifications. Includes job code 0050 and 0083.
Motor vehicle operator	Operate a variety of vehicles such as passenger cars, fork trucks, tuggers, and other small vehicles outside the Private Motor Carrier Program. Includes manual loading and unloading of vehicles and maintaining logs/documentation. Includes job code 0051.
Oiler	Lubricates, oils, and greases equipment. Check and report on lube system problems. Includes job code 0052.
Painter	Prepare surfaces and apply paints, enamels, stains and other paint like coating and protective materials to structures and equipment. Install glass and Plexiglas glazing. Includes job code 0054.
Pipefitter	Layout, install and maintain (inspect and repair) piping systems of all types. Install insulation on piping, flues housings and other objects. Includes job code 0055 and 0084.
Porter	The general cleaning of company rest rooms, locker rooms, conference rooms, offices, and break rooms. Includes trash removal, cleaning of floors, cleaning/sanitizing of washroom facilities, inside pest control, and set up of facilities for meetings, conferences, etc. Includes job code 0056.
Private motor carrier operator	Operate a variety of vehicles governed under the Federal Motor Carrier Safety Regulations as commercial vehicles. Includes pick up and delivery of supplies off site using public highways, manual loading and unloading of trucks, and maintaining logs/documentation of hours each day. Includes job code 0087.

***Manpower Planning Title Descriptions
and Included Job Classification Codes***

Manpower Planning HR Resource Title*	Short Job Description WAGE
Professional warehouse attendant	Receives and verifies material received, inventories and issues material from stockrooms or warehouses. Loads, unloads, stacks, and adjusts location of material in stockrooms or warehouses. Includes job code 0075.
Pump operator	Checks operations of pumps, performs routine Waste Water treatment system functions, alternate pumps, obtains and prepares samples from sanitary and waste systems, and cleans interior of systems. Routinely inspects/documents Leachate Conveyance Systems items, obtains and collects samples for IEMP. Includes job code 0057 & 0058.
QA checker	Inspects material for physical dimensions and defects. Checks gauges, instruments, equipment, and other measuring devices for conformance to specifications. Prepare proper forms, logs, and control charts. Includes job code 0035.
Respirator wash	Clean Respirators for reuse. Inspect them for defects and replace defective parts. Includes job code 0021.
Rigger	Make up, install and operate simple or special rigging equipment for raising, lowering and otherwise handling large equipment. Includes job code 0060.
Security officer	Control access points and patrol assigned areas to verify integrity of security features and watch for irregularities. Provide vehicular and pedestrian traffic controls. Includes job code 0063.
Stationary engineer	Operate the Power Plant boilers, pumps, air compressors, and other related mechanical equipment supplying steam, plant air, and instrument air. Record operating parameters and analyze product quality and quantity. Required to possess a state issued Stationary Engineer's license. Includes job code 0067.
Waste water plant operator	Operate the Waste Water Plant, water conveyance, basin and lagoon systems. Inspects and maintains equipment and maintain logs. Includes job code 0080.
Waterplant operator	Operates the various water (potable, process, fire protection, cooling, and well) distribution systems, including performing the necessary quality tests. Maintains logs, back-flow preventors, fire pumps, hydrants, and equipment as required. Required to possess a state issued Class 1 Waste & Sewage Plant operator's license. Includes job code 0076.
Welder	Perform acetylene, arc and other types of welding on a variety of metals and alloys. Set up and maintain welding equipment. Includes job code 0078.

***Note:** These skills descriptions are not to be all inclusive of these job titles, any questions on the skill levels of any of the titles should be directed to Industrial Relations.

Closure Plan Brainstorm Inter-PBS Agreements

Rev. 4: 09/10/01

The following represent decisions that were made during several Closure Plan Issue Resolution sessions on various interfaces between PBS's. This document represents the agreements that were used in the Fluor Fernald Closure Plan Basis of Estimate, Rev. 0. This list does not include any agreements generated in brainstorming sessions with support organizations except as shown under PBS-12 Support Organizations except for those listed under All. The list is cross-walked between impacted organizations. However, to assure the crosswalk is correct, it is suggested that the entire list be reviewed.

Agreement	Impacted PBS	Combined Subject
All		
1. The North Access Road will be closed as of end of FY04.	All	
2. (REV 4) The following are cost and shipping criteria that can be used by other projects for shipment of debris to Envirocare:	All	
a. Debris can represent 10% of the total volume for each individual railcar and would cost the same price as other pit material.	WP	
b. Size criteria = 10" x 12' x 12'		
c. Disposal costs are \$95/ton		
d. Rail shipping cost is \$9,000/car		
e. A car = 107.tons or 100 cubic yards		
f. Lid placement cost if handled independent of the IT operation = \$1,200/lid (i.e. 40hrs/lid at \$30/hr.)		
3. (REV 4) Waste material sent to Envirocare (via rail shipment as low level waste) is budgeted for by WP through 1Q FY05. Projects need to budget for loading, transporting and meeting WAC for any waste material sent to Envirocare after the 1st quarter of FY05.	All	
	WP	
4. Projects are to be charged only for washable PPE's that are distributed to the project. The following is a breakout of responsibility for PPE:	All	
a. Modesty clothing is budgeted by PBS01 (Except for Waste Pits)	PBS1	
b. Boots are budgeted by PBS01		
c. Coats are budgeted by PBS01 [All Types]		
d. Hard hats & Safety glasses are budgeted by Project		
e. Supply of Respirators are budgeted by PBS01 (Except for Waste Pits)		
f. PPE, (i.e. cool suites, disposable, washable) are budgeted by Project (Except for Waste Pits)		
g. All Fluor Fernald laundry Workers (including Rad Techs) are budgeted by PBS01		
5. (REV 4) The Sewage Treatment Plant will remain & is included as part of AWWT operation through the Fluor Fernald contract.	All	
	Aquifer	

Agreement	Impacted PBS	Combined Subject
6. Manpower is planned for on a straight time basis. Overtime is budgeted separately.	All	
7. SSR budget responsibilities:	All	
a. SSR budgets for all people in their organization required to support the effort	Ops	
b. SSR budgets for any non-Fernald people required to support the effort (i.e. consultant)		
c. Projects on which SSR is being performed, are to budget for their own people required to support effort		
d. Personnel borrowed from other organizations for a short time to support the SSR are carried by the organization from which they came		
8. Assume progress pictures are budgeted for by Public Affairs.	All Public Affairs	
9. (REV 4) Budget for certification and training of personnel is as follows:	All	
a. Special certification (e.g. asbestos supervisor) is the responsibility of the organization from which the individual is matrixed.		
b. Site training (e.g. GET, RAD I & II) is budgeted as follows:		
+ If matrixed (shown as a M in the Green Book), the budget is by the matrixing organization		
+ If matrixed on as a dedicated person (shown as a P in the Green Book), the budget is by the project		
c. Core Training for new hires to replace a person who has bid out to a new position is by budgeted PBS-01		

Agreement	Impacted PBS	Combined Subject
<p>10. All projects except for Waste Pit operations, Aquifer operations, and Silos operations are responsible forecasting and budgeting for LLW and MW that the project will generate. Waste Treatment and WGS will be responsible for providing the disposition plan and estimate for the waste material. The following is a detail listing of these responsibilities:</p> <ul style="list-style-type: none"> a. All projects are responsible for forecasting & budgeting for LLW and MW that the project will generate. WT and WGS will be responsible for providing the disposition plan and estimate for the waste material. b. The point where WT/WGS picks up work (e.g. loading containers or picking up containers) is project specific and is to be defined in your closure plan c. WGS will budget for the interface with the TRB regarding containers d. WT/WGS estimate for a project includes budget for the following WT/WGS work activities: <ul style="list-style-type: none"> - characterization of work - container - container prep - pickup of container - shipping container, if applicable - treatment of waste, if applicable - disposal of waste, if applicable e. A Project has responsibility for budgeting for container loading inspection. (Projects) f. Movement of containers on a project is a project cost. g. Maintenance and movement of a container/waste while in storage is budgeted by PBS10 & 11 	All	
<p>11. (REV 4) PBS10 & PBS11 will budget for disposal of all offsite waste material that is in a container or on a pallet as of 12/01/2000</p>	All WGS WT	
<p>12. (REV 4) Responsibility for non-project Chemical Disposal</p> <ul style="list-style-type: none"> a. Removal of chemicals from non-project facilities is budgeted and performed by PBS01 b. Disposal of non-project chemicals is budgeted and performed by WGS. PBS01 has provided WGS a list of the projected chemicals which is shown as Exhibit 2 to this attachment. c. The lab is responsible for removal & disposal of chemicals d. Routine disposal of chemical waste from the garage, photographs, medical labs, etc. is budgeted and performed by WGS. The removal and delivery of this chemical waste is budgeted and performed by PBS01. PBS01 will provide a list which is shown as Exhibit # 2 to this attachment. e. Projects are responsible for disposal of chemicals used on the project this excludes Aquifer facilities f. At the end of the project, the Lab will disposition & remove excess chemicals 	All Lab PBS1 WGS WT	

Agreement	Impacted PBS	Combined Subject
<p>13. Responsibility for Equipment:</p> <p>a. All mobile government furnished equipment is maintained/repared by PBS01 Excludes: Railcar & locomotives until Waste Pits is complete. If rail yard continues after that time, PBS01 will pick up costs. NOTE: Subsequent meetings have determined that post Waste Pits railcar shipments will use inter-modal railcars.</p> <p>b. All equipment rented by Fluor Fernald is to include repair/maintenance as part of the lease/rental contract. Projects will budget for rental equipment</p> <p>c. Projects and PBS-01 have generated a list of government furnished mobile equipment & portable HEPA Vacs on a time-phased basis. This is shown as Exhibit 1 to this Attachment.</p> <p>d. Replacement or purchase of new equipment is budgeted by PBS01</p> <p>e. All ROB repair is budgeted by PBS01</p> <p>f. All HEPA Vacs are maintained & repaired by PBS01</p> <p>g. All hand tools are budgeted by the Projects Exception: All standard rigging equipment is budgeted for by PBS01</p> <p>h. Disposal of non-salvageable government furnished equipment is budgeted for by WGS</p> <p>i. Scales - Maintenance/repair is budgeted for by PBS01 Excludes: Waste Pits until their project is complete. Then it becomes a PBS01 responsibility to budget for repair & maintenance</p>	All	
<p>14. Responsibility for facility maintenance & repair</p> <p>a. Maintenance & repair of all government furnished facilities (i.e. office bldgs, trailers) is budgeted by PBS01</p> <p>b. All personnel type trailers (i.e. project office, change trailers, break trailers) are to be furnished & maintained by PBS01. Projects are to provide a list of needs no later than 3/23/01</p> <p>c. All Sumps that require repair are budgeted by PBS01</p> <p>d. All Sumps that require clean out are budgeted by WGS</p> <p>e. The following operating facilities are maintained by the listed projects:</p> <ul style="list-style-type: none"> - Waste Pits Treatment Facility - Waste Pits - Aquifer Treatment Facility & Well Fields - Aquifer - AWR Retrieval/Storage Facilities - Silos - Silos 1 & 2 Treatment Facility - Silos - Silos 3 Treatment Facility - Silos - OSDF Maintenance - OSDF 		
<p>15. Assume Lab rates remains the same after the Lab is gone</p>	All	
<p>16. Assume that bulk material, such as rock to OSDF or concrete that is delivered directly to a project, is received by the project and does not go through RIMIA</p>	Lab	
	All	

Agreement	Impacted PBS	Combined Subject
<p>17. WAO Interface with projects:</p> <p>a. WAO budgets for their personnel to support projects as applicable. To the extent possible extended shifts are to be limited</p> <p>b. Stockpile maintenance:</p> <p>1. During Shutdown:</p> <ul style="list-style-type: none"> - Soils budgets for stockpiles they have generated - WAO budgets for all non-soil stockpiles <p>2. During excavation operations:</p> <ul style="list-style-type: none"> - Soils will budget for all stockpiles in an area when an area excavation is started - WAO budgets for all stockpiles not under an area that Soils controls 	<p>All WAO</p>	
<p>18. Assume that WP trains and budgets only for the operators that are needed by WP. Training required by other projects on the WP project is budgeted for by the requesting project.</p>	<p>All WP</p>	
<p>19. Assume RIMIA will provide truck scales in out years. This is budgeted in PBS01</p>	<p>All PBS1 Silos</p>	
<p>20. (REV 4) Safety analysis for all site work is centralized and budgeted for by PBS-12, ES&H.</p>	<p>All ES&H</p>	
<p>21. (REV 4 - NEW) ES&H in PBS-12 will be responsible for the purchase and maintenance of rad monitoring equipment used for rad control purposes.</p>	<p>All ES&H</p>	
<p>22. (REV 4 - NEW) Facility/trailer purchase and /or lease:</p> <p>a. PBS01 is responsible for the budget for the purchase and/or lease of on-site trailers and facilities needed to support the long-term Space Management needs for the site.</p> <p>b. Projects are responsible for purchase/lease or movement of a trailer used for specific project related work other than general office facilities for Fluor Fernald personnel (e.g. movement of a "change trailer" for project needs). Facility/Lease Purchase List (Exhibit 3) in this attachment.</p>	<p>All PBS1</p>	
<p>23. The following approach is to be used for shipping D&D debris by rail: Debris can represent 10% of the volume of an individual railcar and is priced the same as Waste Pits material</p>	<p>All D&D WP</p>	<p>Rail Shipments</p>
<p>24. The following approach is to be used for shipping soils by rail:</p> <p>For FY01: Assume there will be 5,550 yds. generated. This will be delivered directly to the Waste Pits for processing through IT.</p> <p>For FY05 through FY07, 10,000 yds. will be generated. (Note: while there is a potential for treating and shipping 5,000 yds. in FY02, for planning purposes assume this will not happen.) this will require 33 cars/year for 3 years. Assume the following for shipment:</p> <p>++ An intermodal rail carrier such as MHF will be used to provide shipping containers and rail cars. The containers are priced on a one way shipment.</p> <p>++ The track adjacent to the Waste Pits is declared a clean area so that CSX can move the rail cars on and of the site.</p> <p>++ Soils would take the box to the excavation area, load it, decon the exterior of the box and load the box on the rail car. The unloading and loading of the box on the rail car would be done in a clean environment.</p>	<p>All Soils WP</p>	<p>Rail Shipments</p>

Agreement	Impacted PBS	Combined Subject
<p>25. The following approach is to be used for shipping Silo 3 material by rail: For Silo 3 in FY03 and FY04, assume that 6,600 yards are generated. The material will be generated over a 12-month period with quantities split 50/50 for the two years. Assume the following for shipment:</p> <p>++ All material is loaded in a 10,000 lbs. Burrito bag</p> <p>++ Assume that the material is shipped to Envirocare</p> <p>++ Assume that the existing gondola cars are used for shipment of the material. This will require 100 carloads over a 12-month period split between FY03 and FY04. Note: this will require 5,000 tons of Waste Pit rail capacity in both FY03 and FY04.</p> <p>++ Assume that the cars are loaded by Silo 3 at the crossing between Track 12 and the Haul Road.</p>	<p>All Silos WP</p>	<p>Rail Shipments</p>
<p>26. The following approach is to be used for Aquifer rail shipments: For FY01 through FY04: Assume there will be 200 metal boxes (84 cu. ft. or 3.1 yd's.) generated each year. The boxes will be delivered and dumped on Stock Pile 7 for Waste Pits to process through IT.</p> <p>+ For FY05 to Project completion: Assume there will be 200 metal boxes (84 cu. ft. or 3.1 yd's.) generated each year. The sludge disposal for Aquifer requires building a retaining area to stock pile the sludge.</p>	<p>All Aquifer WP</p>	<p>Rail Shipments</p>
<p>27. (REV 4) WP is to determine cost of railcar shipments for all material sent to Envirocare through the Waste Pits. This railcar shipment budget will be carried in PBS-05. Any project using railcars independent of the Waste Pits operations is to determine the cost & carry the budget in that PBS account.</p>	<p>All WP</p>	<p>Rail Shipments</p>
<p>28. Rail cars and locomotives are unavailable after 2nd Quarter FY05.</p>	<p>All</p>	<p>Rail Shipments</p>
<p>29. Soils and soil-like material contaminated with residues will be dispositioned via placement on Soil Pile 7, and subsequent processing and shipment by WPRAP to Envirocare of Utah. All the waste material will be placed in Soil Pile 7 over a 3 year period for FY01 to December 2003.</p> <p>A. soils: This inventory is grouped into 11 campaigns of soils and 2 campaigns of Pit Waste. The total volume of material is estimated at 83,065 cubic feet of Soils and 10,760 cubic feet of Pit Waste. The soils are in various containers: 842 metal boxes, 2,394 drums and 3 type 888 skid type packages, for a total of 3,239 containers/packages. The Pit Waste is in 94 metal boxes and 117 drums, for a total of 211 containers.</p> <p>B. residues: This inventory is grouped into 14 campaigns and includes waste residue material of approximately 3,256 containers or approximately 145,961 cubic feet.</p>	<p>All WGS WP</p>	<p>Rail Shipments</p>
<p>30. Teaming Partner relocations back to their origin, if not picked up by the new project they are transferring too is budgeted for by PBS12.</p>	<p>All</p>	<p>Relocation</p>
<p>31. Teaming Partner relocations to Fernald as required by a project's scope of work or need for special expertise not at Fernald will be budgeted by the projects.</p>	<p>All</p>	<p>Relocation</p>
<p>Maintenance & Infrac - PBS1</p>		

Agreement	Impacted PBS	Combined Subject
<p>1. Projects are to be charged only for washable PPE's that are distributed to the project. The following is a breakout of responsibility for PPE:</p> <ul style="list-style-type: none"> a. Modesty clothing is budgeted by PBS01 (Except for Waste Pits) b. Boots are budgeted by PBS01 c. Coats are budgeted by PBS01 [All Types] d. Hard hats & Safety glasses are budgeted by Project e. Supply of Respirators are budgeted by PBS01 (Except for Waste Pits) f. PPE, (i.e. cool suites, disposable, washable) are budgeted by Project (Except for Waste Pits) g. All Fluor Fernald laundry Workers (including Rad Techs) are budgeted by PBS01 	All PBS1	
<p>2. (REV 4) Responsibility for non-project Chemical Disposal</p> <ul style="list-style-type: none"> a. Removal of chemicals from non-project facilities is budgeted and performed by PBS01 b. Disposal of non-project chemicals is budgeted and performed by WGS. PBS01 has provided WGS a list of the projected chemicals which is shown as Exhibit 2 to this attachment. c. The lab is responsible for removal & disposal of chemicals d. Routine disposal of chemical waste from the garage, photographs, medical labs, etc. is budgeted and performed by WGS. The removal and delivery of this chemical waste is budgeted and performed by PBS01. PBS01 will provide a list which is shown as Exhibit # 2 to this attachment. e. Projects are responsible for disposal of chemicals used on the project this excludes Aquifer facilities f. At the end of the project, the Lab will disposition & remove excess chemicals 		
<p>3. Responsibility for facility maintenance & repair</p> <ul style="list-style-type: none"> a. Maintenance & repair of all government furnished facilities (i.e. office bldgs, trailers) is budgeted by PBS01 b. All personnel type trailers (i.e. project office, change trailers, break trailers) are to be furnished & maintained by PBS01. Projects are to provide a list of needs no later than 3/23/01 c. All Sumps that require repair are budgeted by PBS01 d. All Sumps that require clean out are budgeted by WGS e. The following operating facilities are maintained by the listed projects: <ul style="list-style-type: none"> - Waste Pits Treatment Facility - Waste Pits - Aquifer Treatment Facility & Well Fields - Aquifer - AWR Retrieval/Storage Facilities - Silos - Silos 1 & 2 Treatment Facility - Silos - Silos 3 Treatment Facility - Silos - OSDF Maintenance - OSDF 	All Aquifer OSDF PBS1 Silos WP	
<p>4. Safety and Rad Tech's. will not be budgeted for by Soils in off seasons. This will allow redeployment to other projects during this period.</p>		
<p>5. Assume that at the time of the restart, office space will be provided by others.</p>	PBS1 Soils	
<p>6. Assume the FAT&LC manpower identified in the NRRP is available. Soils is responsible for the budget and for and showing the required manpower in the MPS.</p>	PBS1 Soils	

Agreement	Impacted PBS	Combined Subject
7. Asbestos Placement a. Assume the asbestos is placed Sealands b. Assume the asbestos in the Sealands is dumped directly into the OSDF c. PBS01 is to budget for a truck to dump Sealands in the OSDF	D&D OSDF PBS1 WGS	
8. Assume RIMIA will provide truck scales in out years. This is budgeted in PBS01	All PBS1 Silos	
9. Transportation of materials, etc. from RIMIA to projects or support organizations is budgeted for & performed by PBS 01	PBS1 Procurement	
10. a. INVIVO equipment to be salvaged is budgeted by PBS01. This includes copper wire, copper shielding and the copper door b. The balance of the INVIVO Building is budgeted by D&D	D&D PBS1	
11. Rerouting of any power lines to do the D&D of the Electrical Complex is the responsibility of PBS-2. (Note: this assumes the Main Substation remains.)	D&D PBS1	
12. Assume the mobile crane is maintained by PBS-01 to the end of the project.	Aquifer PBS1	
13. Soils is to provide PBS-01 a list and schedule of GF trucks needed by soils. (See exhibit # 1)	PBS1 Soils	
14. Assume RIMIA will provide truck scales in out years. This is budgeted in PBS01	PBS1 Procurement Silos	
15. The following is the responsibility for ERT coverage: a. PBS01 covers 1st shift b. PBS05 covers 2nd shift c. PBS12 covers 3rd shift and weekends	Emg. Service PBS1 WP	
16. Plant 6 Sump responsibility: a. PBS01 is responsible for budgeting for the sump installation b. Aquifer is responsible for budgeting for operations and maintenance after the sump.	Aquifer PBS1	
17. Responsibility for new or leased conversion trailer disposition: a. PBS02 budgets for disconnect b. Assume the trailers are salvageable or will remain post contract. PBS01 is responsible for disposition of new or lease conversion trailers.	D&D PBS1	
18. (REV 4 - NEW) Facility/trailer purchase and /or lease: a. PBS01 is responsible for the budget for the purchase and/or lease of on-site trailers and facilities needed to support the long-term Space Management needs for the site. b. Projects are responsible for purchase/lease or movement of a trailer used for specific project related work other than general office facilities for Fluor Fernald personnel (e.g. movement of a "change trailer" for project needs). Facility/Lease Purchase List (Exhibit 3) in this attachment.	All PBS1	

Agreement	Impacted PBS	Combined Subject
PBS02 - D&D		
1. The following approach is to be used for shipping D&D debris by rail: Debris can represent 10% of the volume of an individual railcar and is priced the same as Waste Pits material	All D&D WP	
2. Asbestos Placement	D&D	
a. Assume the asbestos is placed Sealands	OSDF	
b. Assume the asbestos in the Sealands is dumped directly into the OSDF	PBS1	
c. PBS01 is to budget for a truck to dump Sealands in the OSDF	WGS	
3. a. INVIVO equipment to be salvaged is budgeted by PBS01. This includes copper wire, copper shielding and the copper door	D&D PBS1	
b. The balance of the INVIVO Building is budgeted by D&D		
4. The main phone line trunk relocation that currently is in the OSDF footprint will be re-located by D&D as part of their utility relocation.	D&D OSDF	
5. a. Above ground thorium contaminated debris will be encapsulated when removed. Maintenance of stockpiled thorium contaminated debris at the project site or in the OMTA is budgeted & performed by PBS02	D&D OSDF WGS	
b. Thorium contaminated material is to be stored in KC-2 Warehouse slab and sprayed with a surfactant by D&D		
6. Assume all legacy asbestos can be placed in OSDF	D&D OSDF WGS	
7. (REV 4) Friable Transite is to be packaged in 4' bundles & double wrapped in 6 mil poly. It will be covered by tarps for interim storage - All budget for this work is by D&D	D&D OSDF WGS	
8. WGS is responsible for the disposal of ROB at the end of the project.	D&D WGS	
9. PBS10 & PBS11 will budget for the disposal of PT. 5 and PT. 6 Offsite Debris.	D&D WGS WT	
10. D&D above WAC debris disposal	D&D	
a. Assume all above WAC debris disposal is to Envirocare with the exception of TASCA and RCRA.	WGS	
b. Assume all above WAC D&D debris is generated prior to 2nd Quarter, FY05. Waste Pits will budget for loading, shipping, and disposal of the D&D above WAC debris shipped to Envirocare. D&D is to furnish Waste Pits the projected quantities.	WP	
c. D&D is to budget for size reducing the above WAC debris shipped to Envirocare to meet Envirocare specifications.		
d. D&D is to budget for moving the above WAC debris to be shipped to Envirocare to the Waste Pits area.		
e. Waste Pits is to identify the drop area in the Waste Pits area.		

Agreement	Impacted PBS	Combined Subject
<p>11. Silo D&D: Excavation Agreements:</p> <p>a. The holes in the Silos will be covered to minimize rainwater intrusion by Silos project</p> <p>b. Silos 1,2,3 & 4 will be D&D at the time of Silo Treatment Facility. This will be moved from PBS02 to PBS07.</p> <p>c. Silos will take out the below grade debris for the Silos 1 and 2 (includes Silos slab & decant equipment) tanks. The slab and decant equipment for Silo 3 & 4 will be budgeted for and removed by Soils</p> <p>d. The K-65 trench responsibilities are as follows:</p> <ul style="list-style-type: none"> - D&D removes pipe from the T to Hot Rafinate - Soils removes trench - Trench from T to Silos is taken out by Silos - Aquifer pipe from Bio-Surge Lagoon to AWWT needs to be relocated to remove the trench. This will be budgeted for by Aquifer - During removal of K65 trench and the decant tanks any perched water will be pumped to the storm water collection system. <p>e. Silo's 1 & 2 structure will be shipped to NTS. It is assumed that Silo's 3 & 4 will be cleaned by the Silo's Project to meet the OSDF level.</p>	<p>Aquifer</p> <p>D&D</p> <p>Silos</p> <p>Soils</p>	
<p>12. Assume that the High Nitrate tank is part of AWWT and is not part of this contract scope.</p>	<p>Aquifer</p> <p>D&D</p> <p>Soils</p>	
<p>13. List of buildings not to be D&D:</p> <p>16K Dissolved Oxygen Facility Substation</p> <p>18J Methanol Tank (sludge tank)</p> <p>18M High Nitrate Storage Tank</p> <p>18P Dissolved Oxygen Building</p> <p>18Q South Plume Int. Treatment Bldg/AWWT Valve House</p> <p>18R Outfall Line Pit</p> <p>18S Recovery Well System Control Bldg (S. of Willey Rd)</p> <p>18T Public Water Supply Meter House (at Willey Rd.)</p> <p>18U 50K gal. Storage Tank</p> <p>18V Southfield Valve House</p> <p>18Y AWWT Ozone Generation Bldg</p> <p>18Z Sludge Mix Tank</p> <p>19B Pilot Plant Ammonia Tank Farm/AWWT Caustic Tank Storage</p> <p>22F Main Gas Meter</p> <p>51A Advanced Wastewater Treatment</p> <p>51B Slurry Dewatering Facility</p> <p>51C AWWT Laboratory Expansion Bldg.</p> <p>93A Southwest Boiler House</p> <p>Taco Trailer Area</p> <p>New Mexico Trailers Area</p> <p>Bio-Surge Lagoon</p> <p>Storm Water Basins</p> <p>Sewage Treatment Plant (STP)</p> <p>New Lab Bldg</p>	<p>D&D</p>	
<p>14. PBS02 will reroute the lift station in Area 5 prior to A5 excavation</p>	<p>Aquifer</p> <p>D&D</p> <p>Soils</p>	

Agreement	Impacted PBS	Combined Subject
15. Rerouting of any power lines to do the D&D of the Electrical Complex is the responsibility of PBS-2. (Note: this assumes the Main Substation remains.)	D&D PBS1	
16. IAWWT D&D is part of this contract.	Aquifer D&D	
17. Assume that the balance of the OMTA is constructed in FY01. All deliveries generated by D&D for replacement in the OSDF always goes to the OMTA.	D&D OSDF	
18. PBS02 will be responsible for all utility disconnect relocation required by Soils. This excludes the perimeter trenching	D&D Soils	
19. Soils is to coordinate the use of change out trailers with D&D and document the assumptions in the Closure Plan.	D&D Soils	
20. Assume that D&D removes the rails in the Rail Yard prior to the excavation of Area 6.	D&D Soils	
21. Assume that D&D removes the shield walls in Pt. 2 to ground level.	D&D Soils	
22. Assume the superstructure for Silo 1, 2 and 4 is part of the D&D of the silo's structure.	D&D Silos	
23. Silo shield walls: a. The shield blocks from Bldg. 64/65 will be used by Silos. WGS will budget for moving them to a staging area near Bldg. 30/45 parking lot. The shield blocks from PIt. 3 will not be used. b. Assume that the shield blocks can be placed in OSDF without size reduction c. Movement of the shield blocks to the OSDF is budgeted by Silos	D&D OSDF Silos WGS	
24. Assume that the following facilities will be used by NMD to the dates shown: + Bldg. 80 4Q FY03 + Bldg 30A 3Q FY04 + Bldg 56A 3Q FY04 + Bldg 71 3Q FY04 + Bldg. 77 3Q FY04 + Plant 1 Pad 3Q FY04	D&D NMD	

Agreement	Impacted PBS	Combined Subject
<p>25. Assume that the following facilities will be used by WGS & WT to the dates shown:</p> <p>a. Waste Treatment needs the following in the East Warehouse area:</p> <ul style="list-style-type: none"> - Bldg. 79 to the end of 2nd Quarter, FY05 - Bulk tanks adjacent to Bldg. 79 to the end of 2nd Quarter, FY05 <p>b. (D&D/WT/Soils) Buildings required by WGS/WT: Building use schedule:</p> <ul style="list-style-type: none"> - Plt. 1 Pad and facilities until the end of 4th Quarter, FY05 - Assume 2nd St. underground, stays till 4th Quarter, FY05 - Assume B St. pipe racks stays to 4th Quarter, FY05 - Bldg. 64/65 until the end of 2nd Quarter, FY03 - Bldg. 68 until the end of 4th Quarter, FY05 - Work D&D & Soils around this schedule 	<p>D&D Soils WGS WT</p>	
<p>26. Waste Treatment needs the tanks SW of the Pilot Plant until the end of FY03</p>	<p>D&D WT</p>	
<p>27. Assume trailers to be removed are D&D and put in OSDF</p>	<p>D&D OSDF</p>	
<p>28. D&D does not remove below grade structures, curbs, equipment foundations. Walls are removed to grade level.</p>	<p>D&D Soils</p>	
<p>29. D&D will budget for transporting material to the OMTA and OSDF will budget for rehandling to stock & store After the debris is placed in OMTA, OSDF is responsible for maintaining stock piles/containers and for any movement of the material</p>	<p>D&D OSDF WGS</p>	
<p>30. Assume that Electrical Substation drain is tied into the leachate system. This will be done by PBS02. The tie in will be at the valve house.</p>	<p>Aquifer D&D Soils</p>	
<p>31. The main phone line trunk relocation that currently is in the OSDF footprint will be re-located by D&D as part of their utility relocation.</p>	<p>D&D OSDF</p>	
<p>32. Any alterations to the tie between the Bio-Surge Lagoon and AWWT are the responsibility of Aquifer.</p>	<p>Aquifer D&D OSDF</p>	
<p>33. Assume that the Bio Surge Lagoon is part of AWWT and is not part of this contract scope.</p>	<p>Aquifer D&D Soils</p>	
<p>34. Assume that both the Dissolved Oxygen and Parshall Flume structures are part of the AWWT and are not part of this contract scope.</p>	<p>Aquifer D&D Soils</p>	
<p>35. SPIT is shutdown but not D&D as part of this contract.</p>	<p>Aquifer D&D</p>	

Agreement	Impacted PBS	Combined Subject
<p>36. There is a potential cost savings by having D&D use the old concept of storing wash down waster in a large tanks rather than drums. Because oil is often part of the wash water, oil separation must be done before the water is processed through AWWT. Drums are taken to Plant 1 Pad for this process which requires double handling. If a large tank was used oil separation would be done on site and the water transported in bulk with the "Supper Sucker".</p> <p>a. D&D will use large tanks rather than drums for wash down water.</p> <p>b. D&D will furnish the tanks</p>	D&D WT	
<p>37. Assume OMTA is expanded in FY01 to accept all D&D debris during shutdown. D&D is assuming all debris always goes to OMTA</p>	D&D Soils WGS	
<p>38. Assume all legacy asbestos can be placed in OSDF</p>	D&D OSDF WGS	
<p>39. The Waste Pit Sump in Area 6 remains until Area 6 is certified, and then it is removed by Soils.</p>	Aquifer D&D Soils	
<p>40. Assume that the Silo's project removes the Decant Sumps (i.e. tanks) and the balance of the soil is removed by Soils.</p> <p>A1. Silos will stockpile any soil removed when decant tanks are removed</p> <p>A2. Soils needs to excavate area immediately after decant is removed to prevent groundwater contamination Note: There is currently an overlap between Silos D&D & Area 7 excavation</p>	D&D Silos Soils	
<p>41. Responsibility for new or leased conversion trailer disposition:</p> <p>a. PBS02 budgets for disconnect</p> <p>b. Assume the trailers are salvageable or will remain post contract. PBS01 is responsible for disposition of new or lease conversion trailers.</p>	D&D PBS1	
<p>42. The new Lab Bldg. Will remain and D&D of this building is not part of this contract.</p>	D&D Lab	
PBS03 - OSDF		

Agreement	Impacted PBS	Combined Subject
<p>1. Responsibility for facility maintenance & repair</p> <p>a. Maintenance & repair of all government furnished facilities (i.e. office bldgs, trailers) is budgeted by PBS01</p> <p>b. All personnel type trailers (i.e. project office, change trailers, break trailers) are to be furnished & maintained by PBS01. Projects are to provide a list of needs no later than 3/23/01</p> <p>c. All Sumps that require repair are budgeted by PBS01</p> <p>d. All Sumps that require clean out are budgeted by WGS</p> <p>e. The following operating facilities are maintained by the listed projects:</p> <ul style="list-style-type: none"> - Waste Pits Treatment Facility - Waste Pits - Aquifer Treatment Facility & Well Fields - Aquifer - AWR Retrieval/Storage Facilities - Silos - Silos 1 & 2 Treatment Facility - Silos - Silos 3 Treatment Facility - Silos - OSDF Maintenance - OSDF 	<p>All</p> <p>Aquifer</p> <p>OSDF</p> <p>PBS1</p> <p>Silos</p> <p>WP</p>	
<p>2. Asbestos Placement</p> <p>a. Assume the asbestos is placed Sealands</p> <p>b. Assume the asbestos in the Sealands is dumped directly into the OSDF</p> <p>c. PBS01 is to budget for a truck to dump Sealands in the OSDF</p>	<p>D&D</p> <p>OSDF</p> <p>PBS1</p> <p>WGS</p>	
<p>3. The main phone line trunk relocation that currently is in the OSDF footprint will be re-located by D&D as part of their utility relocation.</p>	<p>D&D</p> <p>OSDF</p>	
<p>4. a. Above ground thorium contaminated debris will be encapsulated when removed. Maintenance of stockpiled thorium contaminated debris at the project site or in the OMTA is budgeted & performed by PBS02</p> <p>b. Thorium contaminated material is to be stored in KC-2 Warehouse slab and sprayed with a surfactant by D&D</p>	<p>D&D</p> <p>OSDF</p> <p>WGS</p>	
<p>5. Assume all legacy asbestos can be placed in OSDF</p>	<p>D&D</p> <p>OSDF</p> <p>WGS</p>	
<p>6. (REV 4) Friable Transite is to be packaged in 4' bundles & double wrapped in 6 mil poly. It will be covered by tarps for interim storage - All budget for this work is by D&D</p>	<p>D&D</p> <p>OSDF</p> <p>WGS</p>	
<p>7. Assume that the balance of the OMTA is constructed in FY01. All deliveries generated by D&D for replacement in the OSDF always goes to the OMTA.</p>	<p>D&D</p> <p>OSDF</p>	
<p>8. Silo shield walls:</p> <p>a. The shield blocks from Bldg. 64/65 will be used by Silos. WGS will budget for moving them to a staging area near Bldg. 30/45 parking lot. The shield blocks from Plt. 3 will not be used.</p> <p>b. Assume that the shield blocks can be placed in OSDF without size reduction</p> <p>c. Movement of the shield blocks to the OSDF is budgeted by Silos</p>	<p>D&D</p> <p>OSDF</p> <p>Silos</p> <p>WGS</p>	
<p>9. Assume trailers to be removed are D&D and put in OSDF</p>	<p>D&D</p> <p>OSDF</p>	

Agreement	Impacted PBS	Combined Subject
10. D&D will budget for transporting material to the OMTA and OSDF will budget for rehandling to stock & store After the debris is placed in OMTA, OSDF is responsible for maintaining stock piles/containers and for any movement of the material	D&D OSDF WGS	
11. The main phone line trunk relocation that currently is in the OSDF footprint will be re-located by D&D as part of their utility relocation.	D&D OSDF	
12. Any alterations to the tie between the Bio-Surge Lagoon and AWWT are the responsibility of Aquifer.	Aquifer D&D OSDF	
13. Assume that the RIMIA parking area is no longer required by WGS after 1Q - FY 04.	OSDF WGS	
14. Air monitoring of the OSDF and OMTA during the project shutdown is budgeted and done by Environmental Monitoring: a. Discontinue personnel monitoring during OSDF Shutdown b. Rad Techs, who are budgeted for by OSDF do OMTA monitoring samples.	Env Mon OSDF	
15. Assume OSDF Leak Detection & monitoring are transferred from PBS03 to PBS04	Aquifer OSDF	
16. OSDF is not responsible for Stewardship activities during the project shutdown.	OSDF Stewardship	
17. Assume the Waste Pits rail yard is available for lay-down area in 1Q-FY06.	OSDF WP	
18. Assume that Soils will load thorium-contaminated soils/debris in the truck so as not to contaminate the truck tires. The OSDF will also unload the truck so that the tires are not contaminated.	OSDF Soils	
19. The charge numbers for EPTS Design and Title III is transferred to PBS-4 (i.e., Valve pits 6 & 7 and the mainline).	Aquifer OSDF	
20. Assume the following for the below the pit excavation: + All liner removals are done at the end of the waste pit excavation. + IT removes the liner and all above WAC material. + The Soils subcontractor will remove all material that goes to the OSDF. Soils budgets for the excavation and transport to the OSDF. OSDF budgets for placement. + WP budgets for interim restoration of the pits. + WP budgets for characterization and sampling for all of the above. a. Liners & above WAC excavation will be done in 2 phases b. Interim restoration is defined as sloping area for drainage & seeding area for temporary erosion control. c. The costs for "a" and "b" are budgeted by PBS05	OSDF Soils WP	
21. Assume all legacy asbestos can be placed in OSDF	D&D OSDF WGS	

Agreement	Impacted PBS	Combined Subject
22. OSDF will provide truck access for Aquifer to Valve House 1 to 7	Aquifer OSDF	
23. (REV 4) Routine Maintenance of Stockpiles (e.g. for regulatory compliance):	OSDF Soils WGS WP	
a. If OSDF (PBS03) or Soils (PBS06) has an active building trades subcontract for the area in which a stockpile is located, then the project will be responsible for maintenance of the stockpile.		
b. Maintenance of stockpiles is the responsibility of PBS11 (other than those in "a").		

PBS04 - Aquifer

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|---|--|
| <p>1. The following approach is to be used for Aquifer rail shipments:
 For FY01 through FY04: Assume there will be 200 metal boxes (84 cu. ft. or 3.1 yd's.) generated each year. The boxes will be delivered and dumped on Stock Pile 7 for Waste Pits to process through IT.
 + For FY05 to Project completion: Assume there will be 200 metal boxes (84 cu. ft. or 3.1 yd's.) generated each year. The sludge disposal for Aquifer requires building a retaining area to stock pile the sludge.</p> <p>2. (REV 4) The Sewage Treatment Plant will remain & is included as part of AWWT operation through the Fluor Fernald contract.</p> <p>3. Responsibility for facility maintenance & repair</p> <p> a. Maintenance & repair of all government furnished facilities (i.e. office bldgs, trailers) is budgeted by PBS01</p> <p> b. All personnel type trailers (i.e. project office, change trailers, break trailers) are to be furnished & maintained by PBS01. Projects are to provide a list of needs no later than 3/23/01</p> <p> c. All Sumps that require repair are budgeted by PBS01</p> <p> d. All Sumps that require clean out are budgeted by WGS</p> <p> e. The following operating facilities are maintained by the listed projects:</p> <ul style="list-style-type: none"> - Waste Pits Treatment Facility - Waste Pits - Aquifer Treatment Facility & Well Fields - Aquifer - AWR Retrieval/Storage Facilities - Silos - Silos 1 & 2 Treatment Facility - Silos - Silos 3 Treatment Facility - Silos - OSDF Maintenance - OSDF | <p>All
Aquifer
WP</p> <p>All
Aquifer</p> <p>All
Aquifer
OSDF
PBS1
Silos
WP</p> |
|---|--|

Agreement	Impacted PBS	Combined Subject
<p>4. Silo D&D: Excavation Agreements:</p> <p>a. The holes in the Silos will be covered to minimize rainwater intrusion by Silos project</p> <p>b. Silos 1,2,3 & 4 will be D&D at the time of Silo Treatment Facility. This will be moved from PBS02 to PBS07.</p> <p>c. Silos will take out the below grade debris for the Silos 1 and 2 (includes Silos slab & decant equipment) tanks. The slab and decant equipment for Silo 3 & 4 will be budgeted for and removed by Soils</p> <p>d. The K-65 trench responsibilities are as follows:</p> <ul style="list-style-type: none"> - D&D removes pipe from the T to Hot Rafinate - Soils removes trench - Trench from T to Silos is taken out by Silos - Aquifer pipe from Bio-Surge Lagoon to AWWT needs to be relocated to remove the trench. This will be budgeted for by Aquifer - During removal of K65 trench and the decant tanks any perched water will be pumped to the storm water collection system. <p>e. Silo's 1 & 2 structure will be shipped to NTS. It is assumed that Silo's 3 & 4 will be cleaned by the Silo's Project to meet the OSDF level.</p>	<p>Aquifer D&D Silos Soils</p>	
<p>5. Assume that the High Nitrate tank is part of AWWT and is not part of this contract scope.</p>	<p>Aquifer D&D Soils</p>	
<p>6. PBS02 will reroute the lift station in Area 5 prior to A5 excavation</p>	<p>Aquifer D&D Soils</p>	
<p>7. IAWWT D&D is part of this contract.</p>	<p>Aquifer D&D</p>	
<p>8. Assume that Electrical Substation drain is tied into the leachate system. This will be done by PBS02. The tie in will be at the valve house.</p>	<p>Aquifer D&D Soils</p>	
<p>9. Any alterations to the tie between the Bio-Surge Lagoon and AWWT are the responsibility of Aquifer.</p>	<p>Aquifer D&D OSDF</p>	
<p>10. Assume that the Bio Surge Lagoon is part of AWWT and is not part of this contract scope.</p>	<p>Aquifer D&D Soils</p>	
<p>11. Assume that both the Dissolved Oxygen and Parshall Flume structures are part of the AWWT and are not part of this contract scope.</p>	<p>Aquifer D&D Soils</p>	
<p>12. SPIT is shutdown but not D&D as part of this contract.</p>	<p>Aquifer D&D</p>	
<p>13. Assume OSDF Leak Detection & monitoring are transferred from PBS03 to PBS04</p>	<p>Aquifer OSDF</p>	

Agreement	Impacted PBS	Combined Subject
14. The charge numbers for EPTS Design and Title III is transferred to PBS-4 (i.e., Valve pits 6 & 7 and the mainline).	Aquifer OSDF	
15. The high nitrate tank pumps & valves need to be upgraded. This is budgeted by Aquifer	Aquifer	
16. The clear-well is not the same structure as the Waste Pit Sump structure which is located below the top of the Waste Pits in the SW corner of Area 6.	Aquifer Soils	
17. Assume that both the Storm Water Basin chambers are part of AWWT and are not part of this contract scope.	Aquifer Soils	
18. Assume that both the Old and New Out-fall are part of the AWWT and/or corridors and are not part of this contract scope.	Aquifer Soils	
19. Assume that when Area's 3A and 4A are certified clean, the storm water is discharged clean directly to Paddy's Run.	Aquifer Soils	
20. Assume that when the SWU excavation is completed, all surface water is discharged to Paddy's Run NOTE: The SWU is not certified at this point in time nor is the surrounding areas excavated.	Aquifer Soils	
21. The Waste Pit Sump in Area 6 remains until Area 6 is certified, and then it is removed by Soils.	Aquifer D&D Soils	
22. Assume the mobile crane is maintained by PBS-01 to the end of the project.	Aquifer PBS1	
23. The Waste Pit Sump will be moved from Area 6 to Area 7, Sector 1.	Aquifer Soils	
24. OSDF will provide truck access for Aquifer to Valve House 1 to 7	Aquifer OSDF	
25. Operation & maintenance of buffer area pumps. After the area is certified (e.g. area 3A & area 4A perimeter), it is the responsibility of Aquifer. Installation of the pumps is budgeted by PBS06. This includes budget for the electrical tie in from local substations	Aquifer Soils	
26. Plant 6 Sump responsibility: a. PBS01 is responsible for budgeting for the sump installation b. Aquifer is responsible for budgeting for operations and maintenance after the sump.	Aquifer PBS1	
27. Post FY05 Aquifer will deliver sludge to PBS06 for disposal. ROB boxes will be used for this	Aquifer Soils	

PBS05 - WP

Agreement	Impacted PBS	Combined Subject
<p>1. (REV 4) The following are cost and shipping criteria that can be used by other projects for shipment of debris to Envirocare:</p> <ul style="list-style-type: none"> a. Debris can represent 10% of the total volume for each individual railcar and would cost the same price as other pit material. b. Size criteria = 10" x 12' x 12' c. Disposal costs are \$95/ton d. Rail shipping cost is \$9,000/car e. A car = 107 tons or 100 cubic yards f. Lid placement cost if handled independent of the IT operation = \$1,200/lid (i.e. 40hrs/lid at \$30/hr.) 	All WP	
<p>2. The following approach is to be used for shipping D&D debris by rail: Debris can represent 10% of the volume of an individual railcar and is priced the same as Waste Pits material</p>	All D&D WP	
<p>3. The following approach is to be used for shipping soils by rail: For FY01: Assume there will be 5,550 yds. generated. This will be delivered directly to the Waste Pits for processing through IT. For FY05 through FY07, 10,000 yds. will be generated. (Note: while there is a potential for treating and shipping 5,000 yds. in FY02, for planning purposes assume this will not happen.) this will require 33 cars/year for 3 years. Assume the following for shipment: ++ An intermodal rail carrier such as MHF will be used to provide shipping containers and rail cars. The containers are priced on a one way shipment. ++ The track adjacent to the Waste Pits is declared a clean area so that CSX can move the rail cars on and of the site. ++ Soils would take the box to the excavation area, load it, decon the exterior of the box and load the box on the rail car. The unloading and loading of the box on the rail car would be done in a clean environment.</p>	All Soils WP	
<p>4. The following approach is to be used for shipping Silo 3 material by rail: For Silo 3 in FY03 and FY04, assume that 6,600 yards are generated. The material will be generated over a 12-month period with quantities split 50/50 for the two years. Assume the following for shipment: ++ All material is loaded in a 10,000 lbs. Burrito bag ++ Assume that the material is shipped to Envirocare ++ Assume that the existing gondola cars are used for shipment of the material. This will require 100 carloads over a 12-month period split between FY03 and FY04. Note: this will require 5,000 tons of Waste Pit rail capacity in both FY03 and FY04. ++ Assume that the cars are loaded by Silo 3 at the crossing between Track 12 and the Haul Road.</p>	All Silos WP	
<p>5. The following approach is to be used for Aquifer rail shipments: For FY01 through FY04: Assume there will be 200 metal boxes (84 cu. ft. or 3.1 yd's.) generated each year. The boxes will be delivered and dumped on Stock Pile 7 for Waste Pits to process through IT. + For FY05 to Project completion: Assume there will be 200 metal boxes (84 cu. ft. or 3.1 yd's.) generated each year. The sludge disposal for Aquifer requires building a retaining area to stock pile the sludge.</p>	All Aquifer WP	

Agreement	Impacted PBS	Combined Subject
6. (REV 4) Waste material sent to Envirocare (via rail shipment as low level waste) is budgeted for by WP through 1Q FY05. Projects need to budget for loading, transporting and meeting WAC for any waste material sent to Envirocare after the 1st quarter of FY05.	All WP	
7. Responsibility for facility maintenance & repair a. Maintenance & repair of all government furnished facilities (i.e. office bldgs, trailers) is budgeted by PBS01 b. All personnel type trailers (i.e. project office, change trailers, break trailers) are to be furnished & maintained by PBS01. Projects are to provide a list of needs no later than 3/23/01 c. All Sumps that require repair are budgeted by PBS01 d. All Sumps that require clean out are budgeted by WGS e. The following operating facilities are maintained by the listed projects: - Waste Pits Treatment Facility - Waste Pits - Aquifer Treatment Facility & Well Fields - Aquifer - AWR Retrieval/Storage Facilities - Silos - Silos 1 & 2 Treatment Facility - Silos - Silos 3 Treatment Facility - Silos - OSDF Maintenance - OSDF	All Aquifer OSDF PBS1 Silos WP	
8. (REV 4) WP is to determine cost of railcar shipments for all material sent to Envirocare through the Waste Pits. This railcar shipment budget will be carried in PBS-05. Any project using railcars independent of the Waste Pits operations is to determine the cost & carry the budget in that PBS account.	All WP	
9. Assume that WP trains and budgets only for the operators that are needed by WP. Training required by other projects on the WP project is budgeted for by the requesting project.	All WP	
10. D&D above WAC debris disposal a. Assume all above WAC debris disposal is to Envirocare with the exception of TASCA and RCRA. b. Assume all above WAC D&D debris is generated prior to 2nd Quarter, FY05. Waste Pits will budget for loading, shipping, and disposal of the D&D above WAC debris shipped to Envirocare. D&D is to furnish Waste Pits the projected quantities. c. D&D is to budget for size reducing the above WAC debris shipped to Envirocare to meet Envirocare specifications. d. D&D is to budget for moving the above WAC debris to be shipped to Envirocare to the Waste Pits area. e. Waste Pits is to identify the drop area in the Waste Pits area.	D&D WGS WP	
11. Assume the Waste Pits rail yard is available for lay-down area in 1Q-FY06.	OSDF WP	

Agreement	Impacted PBS	Combined Subject
<p>12. Assume the following for the below the pit excavation:</p> <ul style="list-style-type: none"> + All liner removals are done at the end of the waste pit excavation. + IT removes the liner and all above WAC material. + The Soils subcontractor will remove all material that goes to the OSDF. Soils budgets for the excavation and transport to the OSDF. OSDF budgets for placement. + WP budgets for interim restoration of the pits. + WP budgets for characterization and sampling for all of the above. a. Liners & above WAC excavation will be done in 2 phases b. Interim restoration is defined as sloping area for drainage & seeding area for temporary erosion control. c. The costs for "a" and "b" are budgeted by PBS05 	<p>OSDF Soils WP</p>	
<p>13. (REV 4) Routine Maintenance of Stockpiles (e.g. for regulatory compliance):</p> <ul style="list-style-type: none"> a. If OSDF (PBS03) or Soils (PBS06) has an active building trades subcontract for the area in which a stockpile is located, then the project will be responsible for maintenance of the stockpile. b. Maintenance of stockpiles is the responsibility of PBS11 (other than those in "a"). 	<p>OSDF Soils WGS WP</p>	
<p>14. The transfer of material to IT from Stock Pile 7 is budgeted for and performed by Waste Pits through 1Q FY05. Projects do not budget for the material disposal as long as it meets Envirocare WAC.</p>	<p>WP</p>	
<p>15. The baseline needs to be planned using the optimum moisture quantities. However, for change purposes in the contract the quantity does not include these additional volumes. The quantity to be used for planning will be established as part of the current optimum moisture study.</p>	<p>WP</p>	
<p>16. The following is the responsibility for ERT coverage:</p> <ul style="list-style-type: none"> a. PBS01 covers 1st shift b. PBS05 covers 2nd shift c. PBS12 covers 3rd shift and weekends 	<p>Emg. Service PBS1 WP</p>	
<p>17. (REV 4) Dispositioning of fissile compounds:</p> <ul style="list-style-type: none"> a. WPRAP will process approximately 2,500 containers of fissile compounds through the blending facility. This entails receiving the containers and blending the contents with soil to DOT and Envirocare WAC acceptable limits. This cost for processing this material is budgeted for by PBS05. b. Fissile compound will be transferred to WPRAP by NMD for confirmatory sampling, loadout, and shipment to Envirocare. c. WP will perform confirmatory sampling, loadout, and shipment of the blended waste to Envirocare of Utah via gondola cars. Approximately 6,000 cubic yards of blended material (fissile compounds with soil) will be transported to Envirocare during the FY02/FY03 time frame (June 02 to Aug 03). 	<p>NMD WP</p>	

Agreement	Impacted PBS	Combined Subject
<p>18. Soils and soil-like material contaminated with residues will be dispositioned via placement on Soil Pile 7, and subsequent processing and shipment by WPRAP to Envirocare of Utah. All the waste material will be placed in Soil Pile 7 over a 3 year period for FY01 to December 2003.</p> <p>A. soils: This inventory is grouped into 11 campaigns of soils and 2 campaigns of Pit Waste. The total volume of material is estimated at 83,065 cubic feet of Soils and 10,760 cubic feet of Pit Waste. The soils are in various containers: 842 metal boxes, 2,394 drums and 3 type 888 skid type packages, for a total of 3,239 containers/packages. The Pit Waste is in 94 metal boxes and 117 drums, for a total of 211 containers.</p> <p>B. residues: This inventory is grouped into 14 campaigns and includes waste residue material of approximately 3,256 containers or approximately 145,961 cubic feet.</p>	<p>All WGS WP</p>	

PBS06 - Soils

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| <p>1. The following approach is to be used for shipping soils by rail:
 For FY01: Assume there will be 5,550 yds. generated. This will be delivered directly to the Waste Pits for processing through IT.
 For FY05 through FY07, 10,000 yds. will be generated. (Note: while there is a potential for treating and shipping 5,000 yds. in FY02, for planning purposes assume this will not happen.) this will require 33 cars/year for 3 years. Assume the following for shipment:
 ++ An intermodal rail carrier such as MHF will be used to provide shipping containers and rail cars. The containers are priced on a one way shipment.
 ++ The track adjacent to the Waste Pits is declared a clean area so that CSX can move the rail cars on and of the site.
 ++ Soils would take the box to the excavation area, load it, decon the exterior of the box and load the box on the rail car. The unloading and loading of the box on the rail car would be done in a clean environment.</p> | <p>All
Soils
WP</p> |
| <p>2. Safety and Rad Tech's. will not be budgeted for by Soils in off seasons. This will allow redeployment to other projects during this period.</p> | <p>PBS1
Soils</p> |
| <p>3. Assume that at the time of the restart, office space will be provided by others.</p> | <p>PBS1
Soils</p> |
| <p>4. Assume the FAT&LC manpower identified in the NRRP is available. Soils is responsible for the budget and for and showing the required manpower in the MPS.</p> | <p>PBS1
Soils</p> |

Agreement	Impacted PBS	Combined Subject
<p>5. Silo D&D: Excavation Agreements:</p> <p>a. The holes in the Silos will be covered to minimize rainwater intrusion by Silos project</p> <p>b. Silos 1,2,3 & 4 will be D&D at the time of Silo Treatment Facility. This will be moved from PBS02 to PBS07.</p> <p>c. Silos will take out the below grade debris for the Silos 1 and 2 (includes Silos slab & decant equipment) tanks. The slab and decant equipment for Silo 3 & 4 will be budgeted for and removed by Soils</p> <p>d. The K-65 trench responsibilities are as follows:</p> <ul style="list-style-type: none"> - D&D removes pipe from the T to Hot Rafinate - Soils removes trench - Trench from T to Silos is taken out by Silos - Aquifer pipe from Bio-Surge Lagoon to AWWT needs to be relocated to remove the trench. This will be budgeted for by Aquifer - During removal of K65 trench and the decant tanks any perched water will be pumped to the storm water collection system. <p>e. Silo's 1 & 2 structure will be shipped to NTS. It is assumed that Silo's 3 & 4 will be cleaned by the Silo's Project to meet the OSDF level.</p>	<p>Aquifer</p> <p>D&D</p> <p>Silos</p> <p>Soils</p>	
<p>6. Assume that the High Nitrate tank is part of AWWT and is not part of this contract scope.</p>	<p>Aquifer</p> <p>D&D</p> <p>Soils</p>	
<p>7. PBS02 will reroute the lift station in Area 5 prior to A5 excavation</p>	<p>Aquifer</p> <p>D&D</p> <p>Soils</p>	
<p>8. PBS02 will be responsible for all utility disconnect relocation required by Soils. This excludes the perimeter trenching</p>	<p>D&D</p> <p>Soils</p>	
<p>9. Soils is to coordinate the use of change out trailers with D&D and document the assumptions in the Closure Plan.</p>	<p>D&D</p> <p>Soils</p>	
<p>10. Assume that D&D removes the rails in the Rail Yard prior to the excavation of Area 6.</p>	<p>D&D</p> <p>Soils</p>	
<p>11. Assume that D&D removes the shield walls in Pt. 2 to ground level.</p>	<p>D&D</p> <p>Soils</p>	
<p>12. Assume that the following facilities will be used by WGS & WT to the dates shown:</p> <p>a. Waste Treatment needs the following in the East Warehouse area:</p> <ul style="list-style-type: none"> - Bldg. 79 to the end of 2nd Quarter, FY05 - Bulk tanks adjacent to Bldg. 79 to the end of 2nd Quarter, FY05 <p>b. (D&D/WT/Soils)Buildings required by WGS/WT: Building use schedule:</p> <ul style="list-style-type: none"> - Plt.1 Pad and facilities until the end of 4th Quarter, FY05 - Assume 2nd St. underground, stays till 4th Quarter, FY05 - Assume B St. pipe racks stays to 4th Quarter, FY05 - Bldg. 64/65 until the end of 2nd Quarter, FY03 - Bldg. 68 until the end of 4th Quarter, FY05 - Work D&D & Soils around this schedule 	<p>D&D</p> <p>Soils</p> <p>WGS</p> <p>WT</p>	

Agreement	Impacted PBS	Combined Subject
13. D&D does not remove below grade structures, curbs, equipment foundations. Walls are removed to grade level.	D&D Soils	
14. Assume that Electrical Substation drain is tied into the leachate system. This will be done by PBS02. The tie in will be at the valve house.	Aquifer D&D Soils	
15. Assume that the Bio Surge Lagoon is part of AWWT and is not part of this contract scope.	Aquifer D&D Soils	
16. Assume that both the Dissolved Oxygen and Parshall Flume structures are part of the AWWT and are not part of this contract scope.	Aquifer D&D Soils	
17. Assume that Soils will load thorium-contaminated soils/debris in the truck so as not to contaminate the truck tires. The OSDF will also unload the truck so that the tires are not contaminated.	OSDF Soils	
18. Assume the following for the below the pit excavation: + All liner removals are done at the end of the waste pit excavation. + IT removes the liner and all above WAC material. + The Soils subcontractor will remove all material that goes to the OSDF. Soils budgets for the excavation and transport to the OSDF. OSDF budgets for placement. + WVP budgets for interim restoration of the pits. + WP budgets for characterization and sampling for all of the above. a. Liners & above WAC excavation will be done in 2 phases b. Interim restoration is defined as sloping area for drainage & seeding area for temporary erosion control. c. The costs for "a" and "b" are budgeted by PBS05	OSDF Soils WP	
19. Assume OMTA is expanded in FY01 to accept all D&D debris during shutdown. D&D is assuming all debris always goes to OMTA	D&D Soils WGS	
20. The clear-well is not the same structure as the Waste Pit Sump structure which is located below the top of the Waste Pits in the SW corner of Area 6.	Aquifer Soils	
21. Assume that both the Storm Water Basin chambers are part of AWWT and are not part of this contract scope.	Aquifer Soils	
22. Assume that both the Old and New Out-fall are part of the AWWT and/or corridors and are not part of this contract scope.	Aquifer Soils	
23. Assume that when Area's 3A and 4A are certified clean, the storm water is discharged clean directly to Paddy's Run.	Aquifer Soils	
24. Assume that when the SWU excavation is completed, all surface water is discharged to Paddy's Run NOTE: The SWU is not certified at this point in time nor is the surrounding areas excavated.	Aquifer Soils	

Agreement	Impacted PBS	Combined Subject
25. The Waste Pit Sump in Area 6 remains until Area 6 is certified, and then it is removed by Soils.	Aquifer D&D Soils	
26. The Waste Pit Sump will be moved from Area 6 to Area 7, Sector 1.	Aquifer Soils	
27. Operation & maintenance of buffer area pumps. After the area is certified (e.g. area 3A & area 4A perimeter), it is the responsibility of Aquifer. Installation of the pumps is budgeted by PBS06. This includes budget for the electrical tie in from local substations	Aquifer Soils	
28. (REV 4) Routine Maintenance of Stockpiles (e.g. for regulatory compliance): a. If OSDF (PBS03) or Soils (PBS06) has an active building trades subcontract for the area in which a stockpile is located, then the project will be responsible for maintenance of the stockpile. b. Maintenance of stockpiles is the responsibility of PBS11 (other than those in "a").	OSDF Soils WGS WP	
29. Security needs to provide and budget for services provided to Soils. To the extent possible these services should be minimized.	Security Soils	
30. Assume that maintenance of certified areas is the responsibility of Stewardship during the Soils shutdown period.	Soils Stewardship	
31. Soils is to provide PBS-01 a list and schedule of GF trucks needed by soils. (See exhibit # 1)	PBS1 Soils	
32. Assume that the Silo's project removes the Decant Sumps (i.e. tanks) and the balance of the soil is removed by Soils. A1. Silos will stockpile any soil removed when decant tanks are removed A2. Soils needs to excavate area immediately after decant is removed to prevent groundwater contamination Note: There is currently an overlap between Silos D&D & Area 7 excavation	D&D Silos Soils	
33. Building 30/45 parking lot is required for Silos 1&2 staging area. This is part of Area 7, Sector 2 and is not part of this contract for excavation.	Silos Soils	
34. a. Assume 75 trucks need to be staged in the West end of the main parking lot. Assume 1,000 ft ² is required per truck. This will require use of 2 acres of the parking lot b. The Silo 1 & 2 containers will be offsite by end of FY07, which will allow excavation of this area at that time.	Silos Soils	
35. There is a potential for savings by treating the RCRA contaminated soil during the period the Waste Treatment project is operational. There are two problems: (1) There is no funding available. (2) This occurs during the period that Soils project is shutdown. a. Because of too many unknowns, treatment of RCRA soils is to be planned as a separate project in the out years (i.e. post FY04) If this becomes feasible, a plan will be developed at that time	Soils WT	

Agreement	Impacted PBS	Combined Subject
36. Post FY05 Aquifer will deliver sludge to PBS06 for disposal. ROB boxes will be used for this	Aquifer Soils	
PBS07 - Silos		
1. The following approach is to be used for shipping Silo 3 material by rail: For Silo 3 in FY03 and FY04, assume that 6,600 yards are generated. The material will be generated over a 12-month period with quantities split 50/50 for the two years. Assume the following for shipment: ++ All material is loaded in a 10,000 lbs. Burrito bag ++ Assume that the material is shipped to Envirocare ++ Assume that the existing gondola cars are used for shipment of the material. This will require 100 carloads over a 12-month period split between FY03 and FY04. Note: this will require 5,000 tons of Waste Pit rail capacity in both FY03 and FY04. ++ Assume that the cars are loaded by Silo 3 at the crossing between Track 12 and the Haul Road.	All Silos WP	
2. Responsibility for facility maintenance & repair a. Maintenance & repair of all government furnished facilities (i.e. office bldgs, trailers) is budgeted by PBS01 b. All personnel type trailers (i.e. project office, change trailers, break trailers) are to be furnished & maintained by PBS01. Projects are to provide a list of needs no later than 3/23/01 c. All Sumps that require repair are budgeted by PBS01 d. All Sumps that require clean out are budgeted by WGS e. The following operating facilities are maintained by the listed projects: - Waste Pits Treatment Facility - Waste Pits - Aquifer Treatment Facility & Well Fields - Aquifer - AWR Retrieval/Storage Facilities - Silos - Silos 1 & 2 Treatment Facility - Silos - Silos 3 Treatment Facility - Silos - OSDF Maintenance - OSDF	All Aquifer OSDF PBS1 Silos WP	
3. Assume RIMIA will provide truck scales in out years. This is budgeted in PBS01	All PBS1 Silos	

Agreement	Impacted PBS	Combined Subject
<p>4. Silo D&D: Excavation Agreements:</p> <p>a. The holes in the Silos will be covered to minimize rainwater intrusion by Silos project</p> <p>b. Silos 1,2,3 & 4 will be D&D at the time of Silo Treatment Facility. This will be moved from PBS02 to PBS07.</p> <p>c. Silos will take out the below grade debris for the Silos 1 and 2 (includes Silos slab & decant equipment) tanks. The slab and decant equipment for Silo 3 & 4 will be budgeted for and removed by Soils</p> <p>d. The K-65 trench responsibilities are as follows:</p> <ul style="list-style-type: none"> - D&D removes pipe from the T to Hot Rafinate - Soils removes trench - Trench from T to Silos is taken out by Silos - Aquifer pipe from Bio-Surge Lagoon to AWWT needs to be relocated to remove the trench. This will be budgeted for by Aquifer - During removal of K65 trench and the decant tanks any perched water will be pumped to the storm water collection system. <p>e. Silo's 1 & 2 structure will be shipped to NTS. It is assumed that Silo's 3 & 4 will be cleaned by the Silo's Project to meet the OSDF level.</p>	<p>Aquifer D&D Silos Soils</p>	
<p>5. Assume the superstructure for Silo 1, 2 and 4 is part of the D&D of the silo's structure.</p>	<p>D&D Silos</p>	
<p>6. Silo shield walls:</p> <p>a. The shield blocks from Bldg. 64/65 will be used by Silos. WGS will budget for moving them to a staging area near Bldg. 30/45 parking lot. The shield blocks from Plt. 3 will not be used.</p> <p>b. Assume that the shield blocks can be placed in OSDF without size reduction</p> <p>c. Movement of the shield blocks to the OSDF is budgeted by Silos</p>	<p>D&D OSDF Silos WGS</p>	
<p>7. Assume that the Silo's project removes the Decant Sumps (i.e. tanks) and the balance of the soil is removed by Soils.</p> <p>A1. Silos will stockpile any soil removed when decant tanks are removed</p> <p>A2. Soils needs to excavate area immediately after decant is removed to prevent groundwater contamination Note: There is currently an overlap between Silos D&D & Area 7 excavation</p>	<p>D&D Silos Soils</p>	
<p>8. Building 30/45 parking lot is required for Silos 1&2 staging area. This is part of Area 7, Sector 2 and is not part of this contract for excavation.</p>	<p>Silos Soils</p>	
<p>9. a. Assume 75 trucks need to be staged in the West end of the main parking lot. Assume 1,000 ft² is required per truck. This will require use of 2 acres of the parking lot</p> <p>b. The Silo 1 & 2 containers will be offsite by end of FY07, which will allow excavation of this area at that time.</p>	<p>Silos Soils</p>	
<p>10. Assume RIMIA will provide truck scales in out years. This is budgeted in PBS01</p>	<p>PBS1 Procurement Silos</p>	

PBS08 - NMD

Agreement	Impacted PBS	Combined Subject
<p>1. Assume that the following facilities will be used by NMD to the dates shown:</p> <p>+ Bldg. 80 4Q FY03</p> <p>+ Bldg 30A 3Q FY04</p> <p>+ Bldg 56A 3Q FY04</p> <p>+ Bldg 71 3Q FY04</p> <p>+ Bldg. 77 3Q FY04</p> <p>+ Plant 1 Pad 3Q FY04</p>	D&D NMD	
2. Assume the UWD/UWZ material is transferred from PBS-11 to PBS-8	NMD WGS	
<p>3. T-Hopper Resolution:</p> <p>a. PBS08 will assume responsibility for the 2 T-Hoppers that contain TRU & hazardous Material. PBS11 will handle the 2 T-Hoppers that contain Low Level material.</p>	NMD WGS	
<p>4. (REV 4) Dispositioning of fissile compounds:</p> <p>a. WPRAP will process approximately 2,500 containers of fissile compounds through the blending facility. This entails receiving the containers and blending the contents with soil to DOT and Envirocare WAC acceptable limits. This cost for processing this material is budgeted for by PBS05.</p> <p>b. Fissile compound will be transferred to WPRAP by NMD for confirmatory sampling, loadout, and shipment to Envirocare.</p> <p>c. WP will perform confirmatory sampling, loadout, and shipment of the blended waste to Envirocare of Utah via gondola cars. Approximately 6,000 cubic yards of blended material (fissile compounds with soil) will be transported to Envirocare during the FY02/FY03 time frame (June 02 to Aug 03).</p>	NMD WP	
<p>5. Fissile excepted and <= 1% compounds disposition:</p> <p>A. LLW will package and ship approximately 4,000 containers of fissile excepted and <= 1% compounds for shipment to and burial at NTS. This includes approximately 1,700 containers < 0.9% U235 for packaging and shipment during FY-01 and packaging and shipment of the remaining 2,300 containers during FY-02.</p> <p>B. NMD will provide the funding for labor, materials, and subcontracts (shipping) to perform this work.</p> <p>C. NMD will support the characterization and profiling of this material for disposal.</p>	NMD WGS	
PBS10 - WT		
1. (REV 4) PBS10 & PBS11 will budget for disposal of all offsite waste material that is in a container or on a pallet as of 12/01/2000	All WGS WT	

Agreement	Impacted PBS	Combined Subject
<p>2. (REV 4) Responsibility for non-project Chemical Disposal</p> <p>a. Removal of chemicals from non-project facilities is budgeted and performed by PBS01</p> <p>b. Disposal of non-project chemicals is budgeted and performed by WGS. PBS01 has provided WGS a list of the projected chemicals which is shown as Exhibit 2 to this attachment.</p> <p>c. The lab is responsible for removal & disposal of chemicals</p> <p>d. Routine disposal of chemical waste from the garage, photographs, medical labs, etc. is budgeted and performed by WGS. The removal and delivery of this chemical waste is budgeted and performed by PBS01. PBS01 will provide a list which is shown as Exhibit # 2 to this attachment.</p> <p>e. Projects are responsible for disposal of chemicals used on the project this excludes Aquifer facilities</p> <p>f. At the end of the project, the Lab will disposition & remove excess chemicals</p>	<p>All Lab PBS1 WGS WT</p>	
<p>3. PBS10 & PBS11 will budget for the disposal of PT. 5 and PT. 6 Offsite Debris.</p>	<p>D&D WGS WT</p>	
<p>4. Assume that the following facilities will be used by WGS & WT to the dates shown:</p> <p>a. Waste Treatment needs the following in the East Warehouse area:</p> <ul style="list-style-type: none"> - Bldg. 79 to the end of 2nd Quarter, FY05 - Bulk tanks adjacent to Bldg. 79 to the end of 2nd Quarter, FY05 <p>b. (D&D/WT/Soils) Buildings required by WGS/WT: Building use schedule:</p> <ul style="list-style-type: none"> - Plt.1 Pad and facilities until the end of 4th Quarter, FY05 - Assume 2nd St. underground, stays till 4th Quarter, FY05 - Assume B St. pipe racks stays to 4th Quarter, FY05 - Bldg. 64/65 until the end of 2nd Quarter, FY03 - Bldg. 68 until the end of 4th Quarter, FY05 - Work D&D & Soils around this schedule 	<p>D&D Soils WGS WT</p>	
<p>5. Waste Treatment needs the tanks SW of the Pilot Plant until the end of FY03</p>	<p>D&D WT</p>	
<p>6. There is a potential cost savings by having D&D use the old concept of storing wash down waster in a large tanks rather than drums. Because oil is often part of the wash water, oil separation must be done before the water is processed through AWWT. Drums are taken to Plant 1 Pad for this process which requires double handling. If a large tank was used oil separation would be done on site and the water transported in bulk with the "Supper Sucker".</p> <p>a. D&D will use large tanks rather than drums for wash down water.</p> <p>b. D&D will furnish the tanks</p>	<p>D&D WT</p>	

Agreement	Impacted PBS	Combined Subject
7. Future Lab Samples	Lab	
a. Lab packages samples & moves to WGS staging area	WGS	
b. Lab is responsible for characterization & disposal of lab samples	WT	
c. Historic samples in WGS inventory is budgeted for by WGS		
d. PBS10 has budgeted for lab pack samples (characterization and disposal) through FY06		
e. Lab will be responsible for Lab waste including disposition after the end of fourth quarter of FY06		
8. There is a potential for savings by treating the RCRA contaminated soil during the period the Waste Treatment project is operational. There are two problems: (1) There is no funding available. (2) This occurs during the period that Soils project is shutdown. a. Because of too many unknowns, treatment of RCRA soils is to be planned as a separate project in the out years (i.e. post FY04) If this becomes feasible, a plan will be developed at that time	Soils WT	
9. Assume that Niobium containers are in WGS's scope.	WGS WT	
10. PBS-10 and PBS-11 will budget for waste material that is to shipped offsite for Pt. 5 and Pt. 6.	WGS WT	

PBS11 - WGS

- | | |
|--|------------------|
| 1. (REV 4) PBS10 & PBS11 will budget for disposal of all offsite waste material that is in a container or on a pallet as of 12/01/2000 | All
WGS
WT |
| 2. (REV 4) Responsibility for non-project Chemical Disposal | All |
| a. Removal of chemicals from non-project facilities is budgeted and performed by PBS01 | Lab
PBS1 |
| b. Disposal of non-project chemicals is budgeted and performed by WGS. PBS01 has provided WGS a list of the projected chemicals which is shown as Exhibit 2 to this attachment. | WGS
WT |
| c. The lab is responsible for removal & disposal of chemicals | |
| d. Routine disposal of chemical waste from the garage, photographs, medical labs, etc. is budgeted and performed by WGS. The removal and delivery of this chemical waste is budgeted and performed by PBS01. PBS01 will provide a list which is shown as Exhibit # 2 to this attachment. | |
| e. Projects are responsible for disposal of chemicals used on the project this excludes Aquifer facilities | |
| f. At the end of the project, the Lab will disposition & remove excess chemicals | |

Agreement	Impacted PBS	Combined Subject
3. WAO Interface with projects: a. WAO budgets for their personnel to support projects as applicable. To the extent possible extended shifts are to be limited b. Stockpile maintenance: 1. During Shutdown: - Soils budgets for stockpiles they have generated - WAO budgets for all non-soil stockpiles 2. During excavation operations: - Soils will budget for all stockpiles in an area when an area excavation is started - WAO budgets for all stockpiles not under an area that Soils controls	All WAO	
4. Asbestos Placement a. Assume the asbestos is placed Sealands b. Assume the asbestos in the Sealands is dumped directly into the OSDF c. PBS01 is to budget for a truck to dump Sealands in the OSDF	D&D OSDF PBS1 WGS	
5. a. Above ground thorium contaminated debris will be encapsulated when removed. Maintenance of stockpiled thorium contaminated debris at the project site or in the OMTA is budgeted & performed by PBS02 b. Thorium contaminated material is to be stored in KC-2 Warehouse slab and sprayed with a surfactant by D&D	D&D OSDF WGS	
6. Assume all legacy asbestos can be placed in OSDF	D&D OSDF WGS	
7. (REV 4) Friable Transite is to be packaged in 4' bundles & double wrapped in 6 mil poly. It will be covered by tarps for interim storage - All budget for this work is by D&D	D&D OSDF WGS	
8. WGS is responsible for the disposal of ROB at the end of the project.	D&D WGS	
9. PBS10 & PBS11 will budget for the disposal of PT. 5 and PT. 6 Offsite Debris.	D&D WGS WT	
10. D&D above WAC debris disposal a. Assume all above WAC debris disposal is to Envirocare with the exception of TASCRA and RCRA. b. Assume all above WAC D&D debris is generated prior to 2nd Quarter, FY05. Waste Pits will budget for loading, shipping, and disposal of the D&D above WAC debris shipped to Envirocare. D&D is to furnish Waste Pits the projected quantities. c. D&D is to budget for size reducing the above WAC debris shipped to Envirocare to meet Envirocare specifications. d. D&D is to budget for moving the above WAC debris to be shipped to Envirocare to the Waste Pits area. e. Waste Pits is to identify the drop area in the Waste Pits area.	D&D WGS WP	

Agreement	Impacted PBS	Combined Subject
<p>11. Silo shield walls:</p> <p>a. The shield blocks from Bldg. 64/65 will be used by Silos. WGS will budget for moving them to a staging area near Bldg. 30/45 parking lot. The shield blocks from Plt. 3 will not be used.</p> <p>b. Assume that the shield blocks can be placed in OSDF without size reduction</p> <p>c. Movement of the shield blocks to the OSDF is budgeted by Silos</p>	<p>D&D</p> <p>OSDF</p> <p>Silos</p> <p>WGS</p>	
<p>12. Assume that the following facilities will be used by WGS & WT to the dates shown:</p> <p>a. Waste Treatment needs the following in the East Warehouse area:</p> <ul style="list-style-type: none"> - Bldg. 79 to the end of 2nd Quarter, FY05 - Bulk tanks adjacent to Bldg. 79 to the end of 2nd Quarter, FY05 <p>b. (D&D/WT/Soils) Buildings required by WGS/WT: Building use schedule:</p> <ul style="list-style-type: none"> - Plt. 1 Pad and facilities until the end of 4th Quarter, FY05 - Assume 2nd St. underground, stays till 4th Quarter, FY05 - Assume B St. pipe racks stays to 4th Quarter, FY05 - Bldg. 64/65 until the end of 2nd Quarter, FY03 - Bldg. 68 until the end of 4th Quarter, FY05 - Work D&D & Soils around this schedule 	<p>D&D</p> <p>Soils</p> <p>WGS</p> <p>WT</p>	
<p>13. D&D will budget for transporting material to the OMTA and OSDF will budget for rehandling to stock & store After the debris is placed in OMTA, OSDF is responsible for maintaining stock piles/containers and for any movement of the material</p>	<p>D&D</p> <p>OSDF</p> <p>WGS</p>	
<p>14. Assume that the RIMIA parking area is no longer required by WGS after 1Q - FY 04.</p>	<p>OSDF</p> <p>WGS</p>	
<p>15. Assume OMTA is expanded in FY01 to accept all D&D debris during shutdown. D&D is assuming all debris always goes to OMTA</p>	<p>D&D</p> <p>Soils</p> <p>WGS</p>	
<p>16. Assume all legacy asbestos can be placed in OSDF</p>	<p>D&D</p> <p>OSDF</p> <p>WGS</p>	
<p>17. Future Lab Samples</p> <p>a. Lab packages samples & moves to WGS staging area</p> <p>b. Lab is responsible for characterization & disposal of lab samples</p> <p>c. Historic samples in WGS inventory is budgeted for by WGS</p> <p>d. PBS10 has budgeted for lab pack samples (characterization and disposal) through FY06</p> <p>e. Lab will be responsible for Lab waste including disposition after the end of fourth quarter of FY06</p>	<p>Lab</p> <p>WGS</p> <p>WT</p>	
<p>18. (REV 4) Routine Maintenance of Stockpiles (e.g. for regulatory compliance):</p> <p>a. If OSDF (PBS03) or Soils (PBS06) has an active building trades subcontract for the area in which a stockpile is located, then the project will be responsible for maintenance of the stockpile.</p> <p>b. Maintenance of stockpiles is the responsibility of PBS11 (other than those in "a").</p>	<p>OSDF</p> <p>Soils</p> <p>WGS</p> <p>WP</p>	

Agreement	Impacted PBS	Combined Subject
3. Transportation of materials, etc. from RIMIA to projects or support organizations is budgeted for & performed by PBS 01	PBS1 Procurement	
4. OSDF is not responsible for Stewardship activities during the project shutdown.	OSDF Stewardship	
5. Security needs to provide and budget for services provided to Soils. To the extent possible these services should be minimized.	Security Soils	
6. Assume that maintenance of certified areas is the responsibility of Stewardship during the Soils shutdown period.	Soils Stewardship	
7. Assume RIMIA will provide truck scales in out years. This is budgeted in PBS01	PBS1 Procurement Silos	
8. (REV 4) Safety analysis for all site work is centralized and budgeted for by PBS-12, ES&H.	All ES&H	
9. The following is the responsibility for ERT coverage: a. PBS01 covers 1st shift b. PBS05 covers 2nd shift c. PBS12 covers 3rd shift and weekends	Emg. Service PBS1 WP	
10. (REV 4 - NEW) ES&H in PBS-12 will be responsible for the purchase and maintenance of rad monitoring equipment used for rad control purposes.	All ES&H	

PBS4 - Lab

- | | |
|---|---------------------------------|
| 1. (REV 4) Responsibility for non-project Chemical Disposal
a. Removal of chemicals from non-project facilities is budgeted and performed by PBS01
b. Disposal of non-project chemicals is budgeted and performed by WGS. PBS01 has provided WGS a list of the projected chemicals which is shown as Exhibit 2 to this attachment.
c. The lab is responsible for removal & disposal of chemicals
d. Routine disposal of chemical waste from the garage, photographs, medical labs, etc. is budgeted and performed by WGS. The removal and delivery of this chemical waste is budgeted and performed by PBS01. PBS01 will provide a list which is shown as Exhibit # 2 to this attachment.
e. Projects are responsible for disposal of chemicals used on the project this excludes Aquifer facilities
f. At the end of the project, the Lab will disposition & remove excess chemicals | All
Lab
PBS1
WGS
WT |
| 2. Assume Lab rates remains the same after the Lab is gone | All
Lab |
| 3. Air monitoring of the OSDF and OMTA during the project shutdown is budgeted and done by Environmental Monitoring:
a. Discontinue personnel monitoring during OSDF Shutdown
b. Rad Techs, who are budgeted for by OSDF do OMTA monitoring samples. | Env Mon
OSDF |

Agreement	Impacted PBS	Combined Subject
<p>4. Future Lab Samples</p> <ul style="list-style-type: none"> a. Lab packages samples & moves to WGS staging area b. Lab is responsible for characterization & disposal of lab samples c. Historic samples in WGS inventory is budgeted for by WGS d. PBS10 has budgeted for lab pack samples (characterization and disposal) through FY06 e. Lab will be responsible for Lab waste including disposition after the end of fourth quarter of FY06 	<p>Lab WGS WT</p>	
<p>5. The new Lab Bldg. Will remain and D&D of this building is not part of this contract.</p>	<p>D&D Lab</p>	

EXHIBIT # 2 **Existing LQC Estimates** (for Nuclear and Non-Nuclear Facilities)

	Total LQC	Total LQC-NF	Total LQC-NNF	Total Excess LQC	Total LQC Waste	Total LQC-NF Waste	Total LQC-NF HazWaste	Total LQC-NF NF LLW	Total LQC-NF MixWaste	Total LQC-NF Solid Waste	Total LQC-NNF Waste	Total LQC-NNF HazWaste	Total LQC-NNF NF LLW	Total LQC-NNF MixWaste	Total LQC-NNF Solid Waste
Liquid (Gal)	Oxidizer	48	20	28	24	12	5	2	0	3	0	3	0	4	0
	Flammable	36,000	14,400	21,600	18,000	9,000	3,600	1,800	0	1,800	0	2,700	0	2,700	0
	Corrosive	17,000	6,800	10,200	8,500	4,250	1,700	850	0	850	0	1,275	0	1,275	0
	Other	1,600	640	960	800	400	160	40	40	40	240	60	60	60	60
Solid (DEs)	Oxidizer	10	4	6	5	3	1	1	0	1	0	1	0	1	0
	Flammable	6	3	3	3	3	1	1	0	1	0	1	0	1	0
	Corrosive	167	67	100	84	42	17	8	0	9	0	12	0	13	0
	Other	2,000	800	1,200	1,000	500	200	50	50	50	300	75	75	75	75

Future Estimates/assumptions

The future chemical quantities will be 10% of existing quantities

Total LQC = 1997 SARA Inventory evaluated by chemist to determine chemical type (evaluation was 70% complete and I estimated quantities by type to 100% of inventory).

Solid DEs = Solid (Lbs)/300 (Estimated Lbs/Drum)

All chemicals are hazardous except type >Other=. 50% of type >Other= is hazardous.

Total LQC-NF = 40% of total inventory.

Total LQC-NNF = 60% of total inventory.

Contaminated = 50% of inventory.

Total Excess LQC = 50% of Total LQC.

Total LQC Waste = 50% of Total Excess LQC.

Total LQQ-NF Waste = 40% of Total LQC Waste.

Total LQQ-NNF Waste = 60% of Total LQC Waste.

EXHIBIT # 3

FACILITY/LEASE PURCHASE LIST

"This account provides coverage for periodic lease payments in accordance with specific lease terms and conditions, and associated electric and/or gas utilities for offsite leased facilities.

- This account also includes purchase and/or lease of on-site trailers and facilities needed to support the long-term Space Management.

Work Scope specifically included is listed below:

- (off-site facility leases not shown)
- ON-SITE TRAILER LEASES:
 - Trailer 303
 - Trailer 304
 - Trailer 38
 - Trailer 414
 - Trailer 415
 - Trailer 553
 - Trailer 312
 - Trailer 191
 - Trailer 39
 - Trailer 189
 - Trailer 547
 - Trailer 548
 - New Trailer Complex (associated with APRJ2)
 - Restroom Trailers (associated with APRJ2)
- PURCHASE OF ON-SITE TRAILERS AND FACILITIES:
 - Trailer 303
 - Trailer 304
 - Medical 7-Plex (associated with APRJ3)
 - Triplewide Trailer (associated with APRJ3)
 - Communication Center (associated with APRJ3)
 - - Stores Pre-Fab Structure (associated with APRJ4)

TRAILER (Lease Durations):

T303	\$470/month thru FY01
T304	\$550/month thru FY01
T38	\$750/month thru FY03
18 New DBL Wide	\$600/month (each) FY02 thru FY08
3 Restroom-Type	\$1,000/month (each) FY02 thru FY08
T39 (S&W)	\$600/month FY01 thru FY03
T189 (Loco. Main)	\$400/month FY01 thru FY06

T414 (Silos)	\$300/month thru FY01
T415 (Silos)	\$800/month thru FY01
T547 (S&W)	\$400/month FY01 thru FY06
T553 (S&W)	\$300/month thru FY01
T312 (S&W)	\$200/month thru FY01
T191 (S&W)	\$400/month thru FY01

TRAILERS (Purchases)

T303 Purchase \$16K in FY02

T304 Purchase \$17K in FY02

Medical 7-Plex Purchase in FY01 FOR \$ 400,000

Triplewide Trailer Purchase in FY03 for \$30,000

STRUCTURES:

Comm Center Purchase in FY01 for \$100K

Stores Pre-Fab Bldg. Purchase in FY01 for \$35K"

EXHIBIT # 1

PROJECT EQUIPMENT NEEDS

The following information represents the project's equipment- needs and the recommended methods to fulfill those needs.
All questions or comments should be directed to Phil Kraus. (648-5513)

EQUIPMENT TYPE	EXPENSE	YEAR NEEDED	REQUESTOR	COMMENTS
Additional Water Tanker	\$ 5,000.00	FY-2001	PBS04	Utilize existing equipment
50 Ton Mobil Crane	\$400,000.00	FY-2003	PBS04	Utilize existing equipment
Used Salt Truck	\$50,000.00	FY-2002	PBS01	Approved with review at time of purchase
Maintenance Service Truck	\$80,000.00	FY-2003	PBS01	Approved with review at time of purchase
15' "Bat Wing" bush hog	\$20,000.00	FY-2003	PBS01	Approved with review at time of purchase
Salt Spreader Boxes (2 units)	\$16,000.00	FY-2003	PBS01	Approved with review at time of purchase
Yard Tractor	\$54,000.00	FY-2002-2004	PBS07	Utilize existing equipment
Flatbed Trailers	\$ 5,000.00	FY-2002-2004	PBS07	Utilize existing equipment
Crane (35 ton capacity)	\$450,000.00	FY-2002-2004	PBS07	Utilize existing equipment
Fork Truck (9,000 lb. Capacity)	55,000.00	FY-2002-2004	PBS07	Utilize existing equipment
Passenger Vans (10-12 passengers)	\$20,000.00	FY-2003-2004	PBS07	Utilize existing equipment
Bus (30-40 passengers)	\$50,000.00	FY-2003-2004	PBS07	Utilize existing equipment
WPRAP Yard Locomotive	\$350,000.00	FY-2003-2004	PBS07	Utilize existing equipment
Gondola Cars	\$50,000.00	FY-2003-2004	PBS07	By Project
New/replacement ambulance	\$130,000	FY-2005	Whitaker-Sheppard, Danny	Utilize existing equipment
First responder vehicle	\$40,000	FY-2005	Whitaker-Sheppard, Danny	Utilize existing equipment
Replacement Fire Pump Truck	\$300,000	FY-2006	Whitaker-	Utilize existing equipment

Utility Vehicle (Emergency Services)	\$80,000.00	FY-2003-2004	Sheppard, Danny	Utilize existing equipment)
Ambulance (Emergency Services)	\$130,000.00	FY-2003-2004	Whitaker-Sheppard, Danny	Utilize existing equipment
Load All	\$85,000.00	FY-2001	PBS01 – Lorie Howard	Approved for purchase
Geo-probe Monitoring platform	\$95,000.00	FY-2004	PBS04	Approved for purchase
Two small grouters (manually transported, size of a small portable generator)	10,000.00	FY-2002-2004	PBS04	Approved for purchase
Fork truck (9000) lbs.	\$55,000.00	FY-2001	PBS04	Denied
Yard tractor (Ottawa)	\$54,000.00	FY-2001	PBS04	Denied
1 RTRAK (John Deer or Ford farm tractor)	\$24,000.00		PBS03/06	Approved for purchase
Backhoe	\$80,000.00		PBS03/06	Utilize existing equipment
Site grapppler or loader	\$125,000.00		PBS03/06	Utilize existing equipment
Vacuum Truck (Guzzler)	\$297,000.00		PBS04	Utilize existing equipment
(2) 6000 LBS. Fork Trucks	\$35,000. (EA)	FY-2001-2006	PBS11	Utilize existing equipment
6000 lb. Fork Truck w/Barrel Turner	\$40,000.00	FY-2001-2006	PBS11	Utilize existing equipment
6000 lb. Fork Truck	\$35,000.00	FY-2001-2006	PBS11	Utilize existing equipment
10,000 lb. Fork Truck w/Scale	\$60,000.00	FY-2001-2006	PBS11	Utilize existing equipment
Track Hoe w/shear	\$400,000.00	FY-2001-2006	PBS11	Utilize existing equipment
Sellick, or Cat – 16,000 lifting capacity	\$75,000.00	FY-2001-2006	PBS11	Utilize existing equipment
Yard truck (Ottawa)	\$54,000.00	FY-2001-2006	PBS11	Utilize existing equipment
Stake Body Truck	\$45,000.00	FY-2001-2006	PBS11	Utilize existing equipment

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APPENDIX D

CHANGES INCORPORATED IN BASIS OF ESTIMATE

PBS01

None

PBS02

None

PBS03/PBS06

None

PBS04

None

PBS05

1. Added 102,000 tons due to change in soil density

PBS07

1. AWR - None
2. Silo's 1&2 - Added requirements due to DOE Order 413.3
3. Silo 3 - Added requirements due to DOE Order 413.3

PBS08

1. Increased shipments due to DOE change in the SARP (Safety Analysis Report for Packaging)

PBS10

1. Historical chemical Inventory disposition not in existing baseline.
2. DOE changed classification of sample containers from archive items to waste, which created the sample disposition container project. The baseline inventory was increased from 35 to 453 containers due to this change.
3. 700 Containers classified as empty in the existing baseline have now been identified as containing waste material.

PBS11

1. Newly generated trash was not included in baseline per DOE HQ.

Global

The labor escalation factors used in the baseline estimate are greater than the 3% specified in the contract. The rates used are as follows:

<u>Year</u>	<u>Annual %</u>	<u>Factor Cum</u>	<u>Factor De-Esc</u>
2002	5.3	1.05258	0.95005

2003	5.9	1.11489	0.89695
2004	5.9	1.18063	0.84701
2005	5.9	1.25061	0.79961
2006	6.8	1.33614	0.74843
2007	8.4	1.44849	0.69038
2008	5.4	1.52672	0.65500
2009	11.1	1.69661	0.58941
2010	3.1	1.74890	0.57179
2011	9.1	1.90882	0.52388
2012	7.0	2.04255	0.48958
2013	7.0	2.18484	0.45770

Unescalated values are in FY01 dollars.

Risk Management Plan – Executive Summary

As required by the Fernald Closure Contract a detailed Risk Management Approach was developed and approved. ~~February 12, 2001.~~ The Risk Management Approach is a disciplined plan to identify, analyze and quantify the various internal and external risks to achieving the project baseline and assists in determining if the risks identified are avoidable and/or manageable.

As an integral part of the site re-baselining effort, the Project/Program Managers, combined with support organizations and subject matter experts performed an evaluation of all discrete and "Level of Effort" (LOE) work activities. The Project/Program teams identified, quantified, and established the probability of occurrence, of all potential risks to their respective control accounts and recorded the results on the Risk/Opportunity Identification and Analysis Forms (see attached).

Next, Estimating Services developed a risk estimate based on the data from the Risk/Opportunity Identification and Analysis Forms provided by the Project/Program teams. The following data from the Risk/Opportunity Identification and Analysis Form is used by Estimating Services as input parameters for the "Crystal Ball" simulation model:

Minimum \$: Total Baseline Dollars
Likeliest \$: Total Baseline Dollars (+) Probable Cost
Maximum \$: Total Baseline Dollars (+) Impact Cost

The statistical analysis is performed at various confidence levels, for the subject risk estimate the 50 percent confidence level has been utilized. The risk estimate is then used to establish the ~~Contractor Management Reserve~~ risk-based contingency for the Fernald site. ~~Contractor Management Reserve~~ Risk-based contingency will be established and controlled at the program level and made available for transfer to the projects/programs to cover incurred risks that are internally driven. See the attached "Summary – Risk Identification Analysis Probabilistic Simulation" for the risk estimates at the control account, PBS, and site levels. The risk-based contingency will be coupled with the Performance Measurement Baseline to establish the Contractor Budget Baseline and will be allocated and managed as described in the Risk Management Approach. In addition, the data has been provided at the 80 percent confidence level to assist DOE in establishing the appropriate DOE contingency level above the Contractor Budget Baseline.

Consistent with the Risk Management Approach, following finalization of the Contractor Budget Baseline, Fluor Fernald will submit a list of those residual risk elements that are critical to the successful closure of the FEMP. A detailed contingency plan will be developed for each critical risk based on the criteria outlined in the Risk Management Approach. This will provide the project/program teams with a defined course of action that can be rapidly implemented in the event a known risk is incurred. Finally, the combined Risk Management Plan (Risk Analysis, Risk Estimate, and Contingency Plans) will be reviewed and updated quarterly.

Risk Management Approach

Fernald Environmental Management Project
Fernald, Ohio

2500-RP-0038, REV. 0 **1a**

~~February 12, 2001~~

August 9, 2001

Approved By:

Dennis J. Carr, Executive Project Director

Date

ISSUE AND REVISION SUMMARY

Revision	PCN	Effective Date	Description of Issue of Revision
0		02/12/01	Issue of Risk Management Approach
1a		08/08/01	Incorporate Comments R1-D857, R1-D747, R1-D748, R1-D751

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1. Introduction and Background

The Fluor Fernald Leadership Team has initiated an effort, through the development of a Risk Management Plan, to help manage and reduce project risk at Fernald. The Risk Management Plan provides a disciplined approach to identify, analyze and quantify the various internal and external risks to achieving the project baseline and assists in determining if the risks identified are avoidable and/or manageable. Project risk is defined as any unplanned, negative deviation from the baseline schedule or cost, which can result from sources of a technical nature, as well as from sources involving regulations, regulators, external stakeholders, the DOE customer, funding and/or legal matters. Additionally, the Risk Management Plan will analyze possible alternatives to address or handle risks, select and define specific alternatives including cost and implementation schedules for each alternative, and provide for routine reporting and updating of the plan, at least quarterly.

This document identifies Fluor's Risk Management Approach to developing an effective Risk Management Plan in two ~~two~~ **three** phases:

- Phase I will require the Project/Program Managers, combined with support organizations and subject matter experts to perform an evaluation of all discrete and "Level of Effort" (LOE) work activities in an effort to identify potential risks. The Project/Program Managers will then quantify the risks, establish the probability of occurrence, and identify a risk-handling strategy to determine the proper course of action for managing each of the subject risks. The risk estimate data, provided by this exercise, will be collected and documented on the Risk/Opportunity Identification and Analysis Form (see Attachment A).
- Phase II will utilize the risk estimate data from the Risk/Opportunity Identification and Analysis Form as input to the "Crystal Ball" simulation modeling to be performed by Estimating Services. A Monte Carlo simulation will be conducted for each control account and rolled up to the PBS level. The PBS' are totaled providing a site-wide risk estimate as well as identifying the individual percentages of total risk at the control account level. This exercise will produce a risk estimate at a pre-determined confidence level that will establish the site ~~Contractor~~ **Risk Based Contingency**.
- ~~Phase III will be to develop contingency plans for the critical risks as identified by Fluor Fernald and DOE following baseline approval. These contingency plans will be a strategic plan to be established early in the project to provide the project/program team an already defined course of action that can be rapidly implemented in the event a known risk should be incurred.~~

~~Risks, including those identified as critical after Phase III, will be monitored in the Quarterly Critical Analysis reviews and annually the risks will be re-assessed and plans modified as necessary.~~ Attachment B, "Guidelines To Develop A Risk Management Plan" provides a user friendly guide to executing Phases I and II.

2. Objective

The objective of the Risk Management Plan is to document the approach that will be used to manage risk through the closure of the FEMP. In addition to documenting the specific risks, a responsible party will be identified to manage each area of risk. The plan will document the initial

R1-
D8
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identification and quantification of risk, how the risk will be handled, and how the risk estimate is developed (see Figure 1.0).

3. Phase I - Methodology

Risk Identification: Risk identification consists of determining which unplanned activities are likely to affect the project. Risk identification shall be reviewed on a quarterly basis throughout the life of the project.

Strictly speaking, risk involves only the possibility of suffering harm or loss. However, in the project context, risk identification also applies to the identification of opportunities for positive outcomes within the program, such as, favorable changes to waste acceptance criteria at an offsite disposal facility.

Risk identification shall address both internal and external risks. Internal risks are those elements that are within the control of the project/program team, such as resource allocation and accurate estimates. External risks are those elements that are outside the control of the project/program team, such as changes in funding, regulations or governing orders. Typically, risks/opportunities are identified by evaluating project specific causes and effects (what could happen and what will ensue) in a "brainstorming" session with the project/program team. The project/program team will identify the risk/opportunity, and document the source of the risk (internal or external) on the Risk/Opportunity Identification and Analysis Form (see Attachment A). External risks will not be included in the overall risk estimate. External risks when incurred will result in a "Request for Equitable Adjustment"; Contractor Management Reserve would not be allocated.

Risk Quantification: Risk Quantification can be defined as the process of evaluating risks and risk interactions to assess the range of possible project outcomes, e.g. cost and schedule growth/improvement. Risk Quantification is the act of analyzing a risk to determine the magnitude of the cost and schedule impact in the event the risk is incurred. During this evaluation the project/program team will define the nature of the impact to the project/program and the corresponding cost/schedule consequences and record the results on the Risk/Opportunity Identification and Analysis Form (see Attachment A). The project/program team can utilize a variety of tools and techniques to estimate the cost/schedule impact from incurring an identified risk, such as, expert judgement, expected monetary values, past experience, and rough order of magnitude estimates. The process for determining the cost/schedule impact shall be structured and thoroughly documented for future justification and/or modification during quarterly reviews.

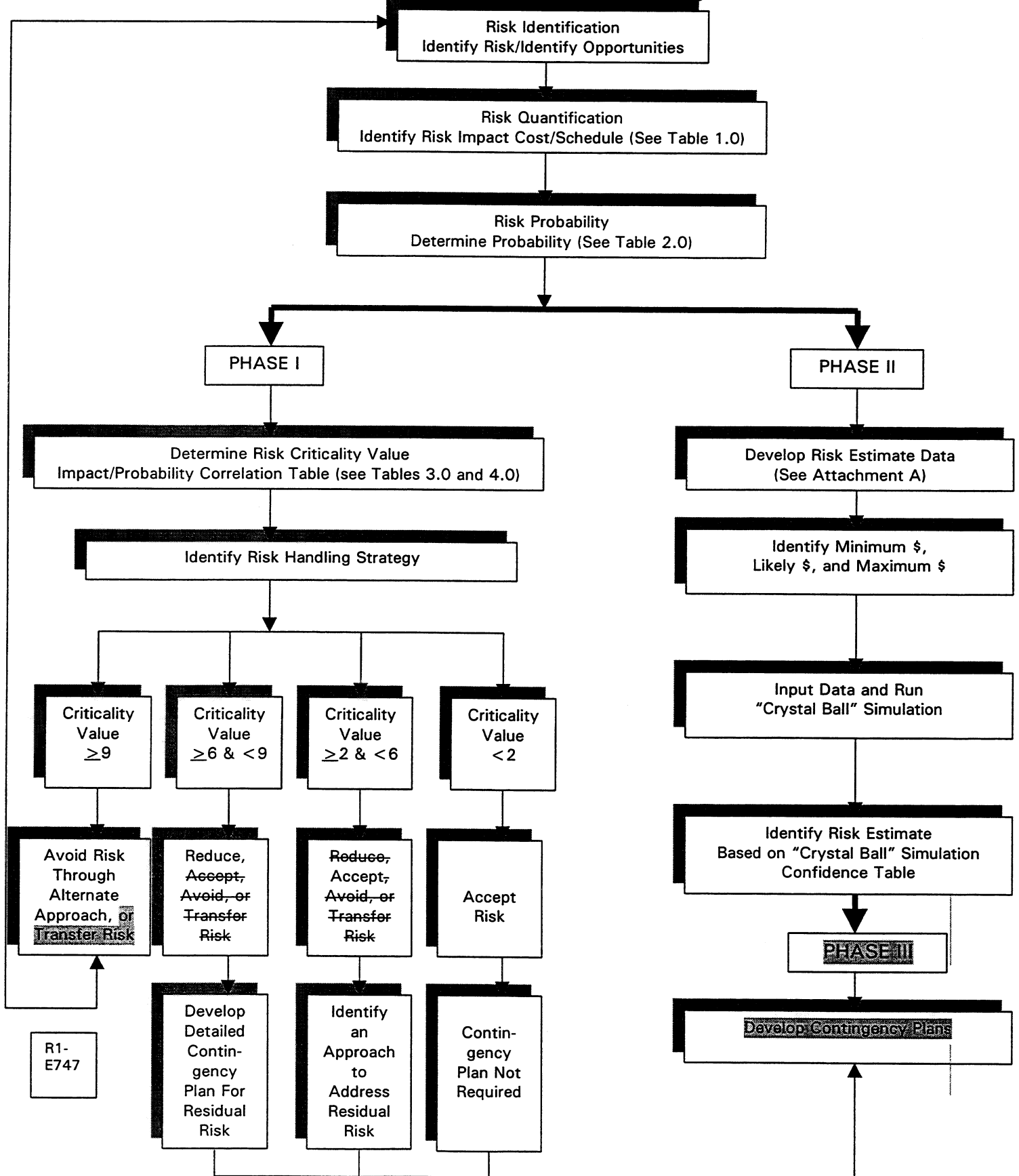
R1-
E7
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Next, the project/program team will determine the Risk Impact Level using the Risk Impact Table (Table 1.0). and Using expert judgement of the impact of each risk task to the Control Account select the level of impact most important to each risk task from either the Cost or the Schedule Criteria. Record the level on the Risk/Opportunity Identification and Analysis Form (see Attachment A).

Table 1.0 - Risk Impact

Level	Value	Technical Criteria	Cost Criteria	Schedule Criteria
5	Catastrophic	Project Stopped Indefinitely	$\geq \$10$ Million	≥ 1 Yr.
4	Critical	Impact To Site Critical Path Projects	$< \$10\text{M} \geq \5M	$< 1\text{Yr.} \geq 6\text{Mo.}$
3	Moderate	Impact To Non-Critical Path Projects	$< \$5\text{M} \geq \1M	$< 6\text{Mo.} \geq 3\text{Mo.}$
2	Marginal	Impact To Project Milestones Only	$< \$1\text{M} \geq \100K	$< 3\text{Mo.} \geq 1\text{Mo.}$
1	Negligible	Minimal To No Impact	No Impact	Minimal To No Impact

Figure 1.0
Risk Management Plan – Flow Diagram



Risk Probability: This is the level of certainty that the risk will be incurred. Probability should be developed based on the best judgement of the project/program team. The probability of occurrence shall be recorded as a percentage (%) ranging from 0% – 100% and recorded on the Risk/Opportunity Identification and Analysis Form (see Attachment A). The process for determining the probability shall be structured and thoroughly documented for future justification and/or modification during quarterly reviews.

Next, the project/program team will determine the Risk Probability Level using the Risk Probability Table (Table 2.0). and Using expert judgement select the probability level corresponding to the determined percentage. Record the level on the Risk/Opportunity Identification and Analysis Form (see Attachment A).

R1-
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Table 2.0 – Risk Probability

Level	Value	Criteria
5	Near Certainty (70-100%)	Everything points to this becoming a problem.
4	Very Likely (50-70%)	High chance of this becoming a problem.
3	Likely (30-50%)	There is a moderate chance of this becoming a problem.
2	Unlikely (10-30%)	Risk of this kind may become a problem once in a while.
1	Improbable (0-10%)	Not much chance this will become a problem.

R1-
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Risk Criticality: The Risk Criticality is derived using the Impact/Probability Correlation Table (Table 3.0). The team establishes the Risk Impact and Risk Probability along the X and Y-axis, respectively. The point that the Impact and Probability intersect is the Risk Criticality Value. The Risk Criticality Value is used to assist the team in determining the risk handling strategy. The Risk Criticality Value will determine if it is recommended to implement an alternate approach in the baseline to avoid the risk or to develop a detailed contingency plan to be used as a strategic planning tool to address the residual risk (see Table 4.0).

Table 3.0 – Impact/Probability Correlation Table

Probability	Impacts				
	1	2	3	4	5
5	2	3	6	9	12
4	2	3	5	8	11
3		2	4	7	10
2		2	3	5	8
1			2	3	5

Risk Handling: Risk handling is the identification of the course of action to be taken to effectively manage the risk identified. Responses to risks will fall into one of four major categories:

- Reduce and/or Mitigate – This strategy identifies actions to be taken to reduce the probability of the occurrence of the risk or mitigate the consequences of a risk. In this

case, residual risk remains and a contingency plan shall be developed to be implemented in the event the reduced risk is incurred.

- **Accept** – Accepting a risk is essentially a “no action” strategy. It may be more cost effective to continue the project as planned with no resources committed to address the risk. A contingency plan should be developed as a strategic plan to be implemented in the event the risk is incurred in the future.
- **Avoid** – This strategy would seek to eliminate the risk. This may be accomplished by including an alternate approach in the baseline that does not include the particular risk. In the event the risk is avoided, contingency planning is not required and a risk estimate will not be calculated for this risk element.
- **Transfer** – This strategy seeks to transfer the project scope, which drives the risk to another project that is better equipped to handle the scope and reduce the risk. Again, contingency planning is not required and a risk estimate will not be calculated for this risk element.

Table 4.0 should be used to assist in determining the risk handling strategy adopted based on the Risk Criticality Value. The strategy should then be documented on the Risk/Opportunity Identification and Analysis Form (see Attachment A).

~~**Contingency Planning:** Contingency Planning allows for a strategic plan to be established early in the project to provide the project/program team an already defined course of action that can be rapidly implemented in the event a known risk should be incurred.~~

~~The contingency plan will provide a plan to fully recover should the event occur and any new actions the project/program team could take ahead of time to bypass the event, or reduce the probability/consequences of the risk impact. The contingency plan shall include scope, cost, schedule, and responsibilities for actions, as well as specific triggers or indicators the project/program team will monitor.~~

Table 4.0 – Risk Criticality

Risk Criticality Value	Action
≥ 9	Avoid Risk Through Alternate Approach or Transfer risk
< 9 but ≥ 6	Reduce, Accept, Avoid, Transfer Risk – Develop A Detailed Contingency Plan For Residual Risk.
< 6 but ≥ 2	Reduce, Accept, Avoid, Transfer Risk - Identify An Approach To Address Residual Risk.
< 2	Accept Risk.

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4. Phase II – Methodology

Risk Estimate: The project risk estimate is determined following the identification of risk elements and the risk estimate data identified on the Risk/Opportunity Identification and Analysis Form (see Attachment A). The following data from the Risk/Opportunity

Identification and Analysis Form is used by Estimating Services as input parameters for the "Crystal Ball" simulation model (triangular distribution):

Minimum \$: Total Baseline Dollars

Likeliest \$: Total Baseline Dollars (+) Probable Cost

Maximum \$: Total Baseline Dollars (+) Impact Cost

A Monte Carlo simulation is ran for each control account, utilizing the risk estimate data identified on the Risk/Opportunity Identification and Analysis Form (see Attachment A). The simulation generates an estimate at various levels of confidence for accomplishing the scope of the control account being evaluated. The risk estimate is determined by using a predetermined confidence level from the Monte Carlo simulation (confidence level estimate - base estimate = risk estimate). Each control account's estimated risk is rolled up to the PBS level. The PBS' are totaled providing a site-wide risk estimate as well as identifying the individual PBS percentage of total site risk. This process will produce a technical/programmatic risk estimate at a pre-determined confidence level that will be used to establish the ~~Contractor Management Reserve~~ **Risk Based Contingency** for the Fernald site.

The following equations provide a graphic representation of how ~~Contractor Management Reserve~~ **Risk Based Contingency** figures into the sites Total Project Cost:

$$\text{Total Project Cost (TPC)} = \text{Contractor Budget Baseline (CBB)} + \text{DOE Cost} \\ + \text{DOE Contingency} + \text{Contractor Fee}$$

$$\text{Contractor Budget Baseline (CBB)} = \text{Performance Measurement Baseline (PMB)} \\ + \text{Contractor Management Reserve} \text{ **Risk Based Contingency**}$$

Following development of the risk based contingency, a confirmatory analysis will be performed modeling correlated risk activities based on PBS interdependencies as defined by the critical path information show by the FEMP Inter-PBS logic ties. The correlated risk activities model will be run in a Crystal Ball Monte Carlo simulation risk analysis to obtain the 50% confidence interval cost estimate. This correlated risk analysis will compared to the initial risk analysis used to develop the risk based contingency.

Contractor Management Reserve Allocation: The Fernald Closure Contract recognizes the need for risk identification and the establishment of resources (dollars) to address risks that may be incurred. Fluor Fernald is proposing that a ~~Contractor Management Reserve~~ **Risk Based Contingency** be established and controlled at the program level and made available for transfer to the projects/programs to cover incurred risks that are internally driven. ~~Contractor Management Reserve~~ **Risk Based Contingency** will not be applied to project risks that are incurred as a result of an external driver; these changes will be addressed under a "Request for Equitable Adjustment". The approved Change Proposal Procedure shall be utilized to allocate ~~Contractor Management Reserve~~ **Risk Based Contingency**. In addition, authorization to apply ~~Contractor Management Reserve~~ **Risk Based Contingency** to specific work tasks requires approval by the Executive Project Director. The Executive Project Director will insure that the work task is within the scope (known-unknown) and is consistent with site-wide priorities, prior to approval. A ~~Contractor Management Reserve~~ **Risk Based Contingency** Usage Log shall be maintained to document usage by date, purpose, and amount. In addition, a ~~Contractor Management~~

~~Reserve Risk Based Contingency~~ Usage Curve shall be maintained to illustrate the history of management reserve usage.

Risk will not be applied or budgeted in the Performance Measurement Baselines of the individual PBS'. However, the ~~Contractor Management Reserve Risk Based Contingency~~ will be apportioned by control account based on their calculated totals from the Phase II Methodology described above. The allocation or apportionment of ~~Contractor Management Reserve Risk Based Contingency~~ is a "plan"; this will not be used as a threshold to constrain the use of ~~Contractor Management Reserve Risk Based Contingency~~ on a specific control account that incurs risk above the planned (apportioned) value.

5. Phase III – Methodology

Contingency Planning: Contingency Planning allows for a strategic plan to be established early in the project to provide the project/program team an already defined course of action that can be rapidly implemented in the event a known risk should be incurred.

The contingency plan will provide a plan to fully recover should the event occur and any new actions the project/program team could take ahead of time to bypass the event, or reduce the probability/consequences of the risk impact. The contingency plan shall include scope, cost, schedule, and responsibilities for actions, as well as specific triggers or indicators the project/program team will monitor. Contingency plans shall be developed for those critical risks identified by Fluor Fernald and DOE following baseline approval.

6. Quarterly Reviews

Following the initial baseline risk analysis, the Risk Management Plan will be reviewed and updated on a quarterly basis. Changes in the nature of identified risks, elimination of risk elements, and identification of new risks elements will be considered along with the resulting impacts to the Contractor Budget Baseline evaluated. The Risk Management Plan will be revised to illustrate the "current status" of the project being evaluated. Critical risks identified at this time that require immediate action shall be incorporated into the Performance Measurement Baseline through the approved Change Proposal process.

It is not the intent of Fluor Fernald to perform Phase II (Monte Carlo Analysis) on a quarterly basis. The Phase II analysis will be performed following significant changes in the Risk Management Plan, but not more than once per year.

Attachment B

Guidelines To Develop A Risk Management Plan

Step #1:

Fill in pertinent data at the top of the Risk/Opportunity Identification and Analysis Form (Attachment A) to allow for easy reference. A form shall be developed for each control account.

Step #2:

Project/Program Managers brainstorm risks/opportunities that may occur on the respective control account with their project teams. The control account can be broken down by **Project Task** or charge number. Identify the **Risk and/or Opportunities** that are considered "known-unknowns", that is, items within the current scope that may occur that will effect the cost and/or schedule of the project if they are incurred. New scope is not a risk.

Step #3:

Determine the **Potential Impact** on materials, labor, and subcontracts, as well as schedule duration.

Step #4:

Document the source of the risk, that is, identify the risk as having either an **Internal or External Driver**.

Step #5:

Determine the **Impact Cost (Maximum Case)** by performing a "Rough Order of Magnitude" (ROM) estimate. The evaluator should use their experience on like projects and judgement to determine cost impact. Schedule impact shall be converted into cost for increased labor and/or extension of LOE resources. The Impact Cost when totaled will provide the Maximum Case cost estimate by control account to be used as an input parameter for the "Crystal Ball" simulation.

Step #6:

Next, determine the **Risk Impact Level** based on the calculated cost and/or schedule impact as compared to the criteria in Table 1.0.

Step #7:

The **Risk Probability %** shall be derived based on lessons learned, experience on similar projects, and judgement. At this time, the evaluator shall also determine the **Risk Probability Level** from Table 2.0.

Step #8:

The **Probable Cost (Likeliest Case)** of the risk element is automatically developed on the Risk/Opportunity Identification and Analysis Form by multiplying the Impact Cost \$ X Risk Probability %. The Probable Cost when totaled will provide the likeliest case cost estimate by control account to be used as an input parameter for the "Crystal Ball" simulation.

Attachment B

Guidelines To Develop A Risk Management Plan

Step #9:

Risk Criticality Value is determined using the matrix in Table 3.0 utilizing the previously determined Risk Impact and Risk Probability Level. The Risk Criticality Value will then be used to determine the appropriate **Risk Handling Strategy** to adopt.

Step #10:

Risk Handling Strategies shall be developed based on the Risk Criticality Value. Risk Handling Strategies generally fall into one of four major categories, 1) Reduce and/or Mitigate, 2) Accept, 3) Avoid, 4) Transfer. Based on the Risk Criticality Value and the Risk Handling Strategy adopted it may be recommended to develop a detailed contingency plan. The contingency plan should identify the approach to fully recover should the event occur and any new actions the project could take to avoid the risk or minimize the impact. The plan shall include scope, cost, schedule, specific trigger/indicators to be observant of and responsibilities for actions the project should take. Table 4.0 identifies the level of action to be taken based on the Risk Criticality Value. In the event the Risk Criticality Value is ≥ 9 , an alternate approach is implemented immediately into the baseline during the re-plan to handle the risk by a different response. In the event the risk is avoided no residual risk is carried forward in the analysis.

Step #11:

Upon completion of the Risk/Opportunity Identification and Analysis Form, the risk estimate data will be provided to Estimating Services for input into the "Crystal Ball" simulation model. A Monte Carlo simulation is performed for each control account and rolled up to the PBS level. The following risk estimate data from the Risk/Opportunity Identification and Analysis Form is used as input parameters for the simulation (triangular distribution):

Minimum: Baseline Dollars
Likeliest: Baseline Dollars (+) Probable Cost
Maximum: Baseline Dollars (+) Impact Cost

From the distribution, a predetermined confidence level is selected and the corresponding dollars are identified by control account. The control accounts are totaled providing a total site-wide risk estimate used to establish the ~~Contractor Management Reserve~~ **Risk Based Contingency**.

Step #12:

Model Correlation is completed by Estimating Services at the PBS level to insure inter-PBS dependancy risks are fully considered. The Site Inter-PBS Critical Path and Secondary Critical path are reviewed for correlation to specific Control Accounts and the correlation analysis is run on the Monte Carlo Probabilistic Simulation. The results are then compared to the initial simulation to confirm the risk analysis is reasonably comprehensive and accurate...

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E7
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Attachment B

Guidelines To Develop A Risk Management Plan

Step #13:

Following baseline approval contingency plans for the critical risks as identified by Fluor Fernald and DOE shall be developed. These contingency plans will be a strategic plan to be established early in the project to provide the project/program team an already defined course of action that can be rapidly implemented in the event a known risk should be incurred.

Attachment B

Guidelines To Develop A Risk Management Plan

Table 1.0 - Risk Impact

Level	Value	Technical Criteria	Cost Criteria	Schedule Criteria
5	Catastrophic	Project Stopped Indefinitely	$\geq \$10$ Million	≥ 1 Yr.
4	Critical	Impact To Site Critical Path Projects	$< \$10M \geq \$5M$	$< 1Yr. \geq 6Mo.$
3	Moderate	Impact To Non-Critical Path Projects	$< \$5M \geq \$1M$	$< 6Mo. \geq 3Mo.$
2	Marginal	Impact To Project Milestones Only	$< \$1M \geq 100K$	$< 3Mo. \geq 1Mo.$
1	Negligible	Minimal To No Impact	No Impact	Minimal To No Impact

Table 2.0 - Risk Probability

Level	Value	Criteria
5	Near Certainty (701-100%)	Everything points to this becoming a problem
4	Very Likely (501-70%)	High chance of this becoming a problem
3	Likely (301-50%)	There is a moderate chance of this becoming a problem
2	Unlikely (101-30%)	Risk of this kind may turn into a problem once in a while
1	Improbable (01-10%)	Not much chance this will become a problem

Table 3.0 - Impact/Probability Correlation Table

Probability	Impacts				
	1	2	3	4	5
5	2	3	6	9	12
4	2	3	5	8	11
3		2	4	7	10
2		2	3	5	8
1			2	3	5

Table 4.0 - Risk Criticality

Risk Criticality Value	Action
≥ 9	Avoid Risk Through Alternate Approach or Transfer Risk.
< 9 but ≥ 6	Reduce, Accept, Avoid, Transfer Risk - Develop A Detailed Contingency Plan For Residual Risk.
< 6 but ≥ 2	Reduce, Accept, Avoid, Transfer Risk - Identify An Approach To Address Residual Risk.
< 2	Accept Risk.

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation @ 50% Confidence Level

Description			Risk Identification And Analysis					Crystal Ball Analysis 50%				
PBS	WBS	Control Account	Minimum	Impact Cost \$	Maximum	Probable Cost \$	Probable Cost \$ + Baseline \$	Likeliest	Risk \$ only @ 50% CL	Baseline + Risk @ the 50% CL	% Increase In Baseline	Risk % of Site Risk Total
1	1.1.A.A	AMGT Total	\$1,680,000	\$1,680,000	\$13,439,838	\$504,000	\$12,935,838	\$680,475	\$12,440,313	\$12,440,313	5.8%	0.2%
	1.1.A.B	ASVC Total	\$30,630,000	\$30,630,000	\$170,642,848	\$9,952,000	\$160,690,848	\$12,925,212	\$152,938,058	\$152,938,058	9.2%	3.1%
	1.1.A.C	AFLD Total	\$17,800,000	\$17,800,000	\$48,402,849	\$3,585,000	\$34,817,849	\$6,648,475	\$37,251,324	\$37,251,324	21.7%	1.6%
	1.1.A.D	APRJ Total	\$1,456,000	\$1,456,000	\$19,645,185	\$646,500	\$19,038,685	\$690,738	\$19,079,933	\$19,079,933	3.8%	0.2%
	1 Total		\$51,566,000	\$51,566,000	\$252,130,728	\$14,687,500	\$237,448,228	\$20,944,901	\$221,709,829	\$221,709,829	10.4%	5.0%
2	1.1.B.A	BFDP Total	\$840,000	\$840,000	\$22,541,618	\$157,500	\$22,384,118	\$302,589	\$22,004,407	\$22,004,407	1.4%	0.1%
	1.1.B.B	BFUD Total	\$510,000	\$510,000	\$5,257,795	\$127,500	\$5,130,295	\$199,944	\$5,347,739	\$5,347,739	3.9%	0.0%
	1.1.B.C	BFDD Total	\$1,850,000	\$1,850,000	\$69,709,123	\$462,500	\$69,246,623	\$720,006	\$68,579,129	\$68,579,129	1.1%	0.2%
	1.1.B.D	BDFW Total	\$500,000	\$500,000	\$1,496,103	\$50,000	\$1,446,103	\$164,983	\$1,461,086	\$1,461,086	16.6%	0.0%
	2 Total		\$3,700,000	\$3,700,000	\$99,404,839	\$787,500	\$98,617,339	\$96,502,339	\$97,092,360	\$97,092,360	1.4%	0.3%
3	1.1.C.A	CECP Total	\$1,400,000	\$1,400,000	\$19,165,357	\$700,000	\$18,465,357	\$702,126	\$18,467,483	\$18,467,483	4.0%	0.2%
	1.1.C.B	CAEN Total	\$3,035,000	\$3,035,000	\$13,029,710	\$1,287,000	\$11,742,710	\$1,404,833	\$11,399,543	\$11,399,543	14.1%	0.3%
	1.1.C.C	CBSP Total	\$585,000	\$585,000	\$3,716,059	\$129,500	\$3,586,559	\$221,323	\$3,351,382	\$3,351,382	7.1%	0.1%
	1.1.C.C	CLTS Total	\$125,000	\$125,000	\$1,596,495	\$62,500	\$1,533,995	\$62,392	\$1,533,887	\$1,533,887	4.2%	0.0%
	1.1.C.D	CCPL Total	\$68,790,000	\$68,790,000	\$172,730,982	\$16,378,000	\$156,352,982	\$26,176,816	\$130,117,798	\$130,117,798	25.2%	6.3%
3 Total	1.1.C.E	CDGT Total	\$650,000	\$650,000	\$4,170,596	\$80,000	\$4,090,596	\$23,269	\$4,313,865	\$4,313,865	5.5%	0.1%
	1.1.E.A	EAMG Total	\$140,383,199	\$140,383,199	\$214,978,199	\$18,637,000	\$156,346,199	\$159,030,199	\$28,790,759	\$169,183,958	20.5%	6.9%
	1.1.E.B	EBAL Total	\$500,000	\$500,000	\$3,851,860	\$250,000	\$3,601,860	\$8,601,860	\$250,315	\$8,602,175	3.0%	0.1%
	1.1.E.B	EBAL Total	\$2,150,000	\$2,150,000	\$23,082,484	\$1,115,000	\$21,967,484	\$22,047,484	\$1,087,565	\$22,020,049	5.2%	0.3%
	1.1.E.C	ECEN Total	\$3,162,500	\$3,162,500	\$22,641,814	\$1,390,250	\$21,251,564	\$20,869,564	\$1,480,125	\$20,959,439	7.6%	0.4%
4	1.1.E.D	EDSD Total	\$3,760,000	\$3,760,000	\$17,045,320	\$1,593,500	\$15,451,820	\$14,858,820	\$1,737,657	\$15,002,977	13.1%	0.4%
	1.1.E.E	EEWW Total	\$62,988,000	\$62,988,000	\$143,539,720	\$14,249,400	\$129,290,320	\$94,801,120	\$24,018,659	\$104,570,379	29.8%	5.8%
	1.1.E.F	EFCF Total	\$2,650,000	\$2,650,000	\$25,245,632	\$882,500	\$24,363,132	\$23,478,132	\$1,125,527	\$23,721,159	5.0%	0.3%
	1.1.E.F	EFCF Total	\$3,568,000	\$3,568,000	\$30,231,089	\$1,496,400	\$28,734,689	\$28,161,489	\$1,650,664	\$28,313,753	6.2%	0.4%
	4 Total		\$78,798,500	\$78,798,500	\$270,673,919	\$20,979,050	\$249,704,869	\$212,818,469	\$31,350,512	\$223,189,931	16.3%	7.5%
5	1.1.F.A	FEAA Total	\$8,200,000	\$8,200,000	\$16,407,673	\$4,030,000	\$12,377,673	\$4,082,896	\$12,270,469	\$12,270,469	49.5%	1.0%
	1.1.F.B	FCBB Total	\$73,500,000	\$73,500,000	\$221,009,879	\$38,100,000	\$182,909,879	\$37,338,748	\$190,848,627	\$190,848,627	24.3%	9.0%
	1.1.F.C	FDEC Total	\$54,320,000	\$54,320,000	\$108,728,642	\$30,571,250	\$78,157,392	\$28,678,232	\$81,086,874	\$81,086,874	54.7%	6.9%
	1.1.F.D	FNW Total	\$4,000,000	\$4,000,000	\$11,322,432	\$1,000,000	\$10,322,432	\$1,551,730	\$8,874,162	\$8,874,162	21.2%	0.4%
	5 Total		\$140,020,000	\$140,020,000	\$361,468,526	\$73,701,250	\$287,767,276	\$295,149,776	\$71,631,606	\$293,080,132	32.3%	17.2%
6	1.1.G.A	GPM1 Total	\$1,800,000	\$1,800,000	\$27,069,393	\$450,000	\$26,619,393	\$697,957	\$25,967,350	\$25,967,350	2.8%	0.2%
	1.1.G.B	GCUB Total	\$350,000	\$350,000	\$15,743,868	\$45,000	\$15,293,868	\$117,463	\$15,511,331	\$15,511,331	0.8%	0.0%
	1.1.G.B	GNRR Total	\$350,000	\$350,000	\$15,743,868	\$45,000	\$15,293,868	\$117,463	\$15,511,331	\$15,511,331	0.8%	0.0%
	1.1.G.C	GC13 Total	\$350,000	\$350,000	\$15,743,868	\$45,000	\$15,293,868	\$117,463	\$15,511,331	\$15,511,331	0.8%	0.0%
	1.1.G.C	GC11 Total	\$350,000	\$350,000	\$15,743,868	\$45,000	\$15,293,868	\$117,463	\$15,511,331	\$15,511,331	0.8%	0.0%
7	1.1.G.D	G211 Total	\$311,000	\$311,000	\$6,876,300	\$89,300	\$6,787,000	\$125,692	\$6,690,992	\$6,690,992	1.9%	0.0%
	1.1.G.E	G3A1 Total	\$20,142,000	\$20,142,000	\$34,912,774	\$6,073,100	\$28,839,674	\$8,191,730	\$22,662,504	\$22,662,504	55.5%	2.0%
	1.1.G.E	GCJ3 Total	\$20,142,000	\$20,142,000	\$34,912,774	\$6,073,100	\$28,839,674	\$8,191,730	\$22,662,504	\$22,662,504	55.5%	2.0%
	1.1.G.E	GCJ3 Total	\$20,142,000	\$20,142,000	\$34,912,774	\$6,073,100	\$28,839,674	\$8,191,730	\$22,662,504	\$22,662,504	55.5%	2.0%
	1.1.G.E	GCJ3 Total	\$20,142,000	\$20,142,000	\$34,912,774	\$6,073,100	\$28,839,674	\$8,191,730	\$22,662,504	\$22,662,504	55.5%	2.0%
8	1.1.G.F	GCW3 Total	\$20,142,000	\$20,142,000	\$34,912,774	\$6,073,100	\$28,839,674	\$8,191,730	\$22,662,504	\$22,662,504	55.5%	2.0%
	1.1.G.F	GCW3 Total	\$20,142,000	\$20,142,000	\$34,912,774	\$6,073,100	\$28,839,674	\$8,191,730	\$22,662,504	\$22,662,504	55.5%	2.0%
	1.1.G.F	GCW3 Total	\$20,142,000	\$20,142,000	\$34,912,774	\$6,073,100	\$28,839,674	\$8,191,730	\$22,662,504	\$22,662,504	55.5%	2.0%
	1.1.G.G	G3B1 Total	\$17,083,000	\$17,083,000	\$12,880,835	\$320,350	\$12,560,485	\$340,695	\$12,506,630	\$12,506,630	2.8%	0.1%
	1.1.G.H	G4B1 Total	\$17,083,000	\$17,083,000	\$12,880,835	\$320,350	\$12,560,485	\$340,695	\$12,506,630	\$12,506,630	2.8%	0.1%
9	1.1.G.H	G4B1 Total	\$17,083,000	\$17,083,000	\$12,880,835	\$320,350	\$12,560,485	\$340,695	\$12,506,630	\$12,506,630	2.8%	0.1%
	1.1.G.H	G4B1 Total	\$17,083,000	\$17,083,000	\$12,880,835	\$320,350	\$12,560,485	\$340,695	\$12,506,630	\$12,506,630	2.8%	0.1%
	1.1.G.H	G4B1 Total	\$17,083,000	\$17,083,000	\$12,880,835	\$320,350	\$12,560,485	\$340,695	\$12,506,630	\$12,506,630	2.8%	0.1%
	1.1.G.K	G611 Total	\$4,922,000	\$4,922,000	\$28,672,409	\$1,393,500	\$27,278,909	\$1,970,635	\$23,726,044	\$23,726,044	9.1%	0.5%
	1.1.G.M	G711 Total	\$1,529,000	\$1,529,000	\$10,385,839	\$488,400	\$9,897,439	\$638,530	\$9,495,369	\$9,495,369	7.2%	0.2%
10	1.1.G.N	G811 Total	\$99,000	\$99,000	\$149,489	\$9,200	\$140,289	\$66,889	\$87,248	\$87,248	51.8%	0.0%
	1.1.G.P	G911 Total	\$106,000	\$106,000	\$568,090	\$21,200	\$546,890	\$38,764	\$500,854	\$500,854	8.4%	0.0%
	1.1.G.Q	GPR1 Total	\$168,000	\$168,000	\$2,858,989	\$51,300	\$2,807,689	\$68,780	\$2,759,769	\$2,759,769	2.6%	0.0%
	1.1.G.Q	GPR1 Total	\$168,000	\$168,000	\$2,858,989	\$51,300	\$2,807,689	\$68,780	\$2,759,769	\$2,759,769	2.6%	0.0%
	6 Total		\$63,204,000	\$63,204,000	\$223,661,215	\$16,681,550	\$206,979,665	\$24,900,041	\$187,357,256	\$187,357,256	15.3%	6.0%

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation @ 50% Confidence Level

Description			Risk Identification And Analysis					Crystal Ball Analysis			
PBS	WBS	Control Account	Minimum	Impact Cost \$	Maximum	Probable Cost \$	Likeliest	Risk \$ only @ 50% CL	Baseline + Risk @ the 50% CL	% Increase In Baseline	Risk % of Site Risk Total
	1.1.H.A	HPM1 Total	\$3,046,639	\$2,750,000	\$13,207,639	\$1,375,000	\$11,832,639	\$1,381,768	\$11,839,307	13.2%	0.3%
	1.1.H.B	HS3A Total	\$39,260,748	\$78,849,450	\$118,089,598	\$32,469,125	\$17,179,271	\$36,231,889	\$75,481,835	92.3%	8.7%
	1.1.H.C	HSWR Total	\$3,326,385	\$13,512,000	\$19,839,385	\$6,756,000	\$12,082,385	\$6,707,307	\$12,033,692	125.9%	1.6%
	1.1.H.C	HWR1 Total	\$4,360,701	\$127,414,000	\$221,774,701	\$50,190,100	\$144,580,801	\$57,590,534	\$151,951,235	61.0%	13.9%
	1.1.H.D	HS1A Total	\$233,562,643	\$188,888,000	\$422,280,643	\$54,110,400	\$287,473,043	\$76,685,044	\$310,047,687	32.9%	18.5%
7 Total			\$382,917,414	\$411,423,450	\$794,180,864	\$144,900,625	\$527,656,039	\$178,596,342	\$581,353,756	46.7%	43.0%
	1.1.J.A	JNMS Total	\$8,919,244	\$250,000	\$9,169,244	\$50,000	\$8,969,244	\$92,424	\$9,011,668	1.0%	0.0%
	1.1.J.B	JNMP Total	\$8,785,635	\$5,138,000	\$13,923,635	\$1,990,100	\$10,776,355	\$2,281,720	\$11,067,355	26.0%	0.5%
	1.1.J.C	JUWP Total	\$21,617,005	\$35,928,000	\$57,845,005	\$13,580,600	\$35,277,605	\$15,964,738	\$37,681,743	73.5%	3.8%
8 Total			\$39,421,884	\$41,316,000	\$80,737,884	\$15,600,700	\$55,022,584	\$18,338,881	\$57,760,765	46.5%	4.4%
	1.1.K.A	KBWT Total	\$1,328,479	\$350,000	\$1,678,479	\$87,500	\$1,413,979	\$135,363	\$1,461,842	10.2%	0.0%
	1.1.K.B	KBRT Total	\$3,933,294	\$5,575,000	\$14,408,294	\$2,162,500	\$10,995,794	\$2,490,048	\$11,323,342	28.2%	0.6%
	1.1.K.C	KBNR Total	\$1,945,000	\$3,632,000	\$8,478,000	\$1,478,900	\$6,324,900	\$1,658,058	\$6,504,058	34.2%	0.4%
	1.1.K.D	KBSD Total	\$1,505,948	\$775,000	\$2,380,948	\$232,500	\$1,838,448	\$321,802	\$1,927,748	20.0%	0.1%
	1.1.K.E	KBTS Total	\$1,505,195	\$0	\$1,505,195	\$0	\$1,505,195	\$0	\$1,505,195	0.0%	0.0%
	1.1.K.F	KBHW Total	\$3,723,682	\$571,000	\$4,297,682	\$57,100	\$3,783,782	\$190,180	\$3,916,842	5.1%	0.0%
	1.1.K.G	KBLA Total	\$907,289	\$200,000	\$1,007,289	\$100,000	\$907,289	\$100,003	\$907,272	12.4%	0.0%
10 Total			\$22,650,845	\$11,103,000	\$33,753,845	\$4,118,500	\$26,769,345	\$4,895,454	\$27,548,289	21.6%	1.2%
	1.1.M.A	MMMA Total	\$1,079,298	\$2,500,000	\$13,296,298	\$1,050,000	\$11,848,298	\$1,149,787	\$11,946,083	10.6%	0.3%
	1.1.M.B	MMMB Total	\$3,937,708	\$24,470,000	\$60,407,708	\$3,659,500	\$39,597,208	\$8,555,844	\$44,493,552	23.8%	2.1%
	1.1.M.C	MMMC Total	\$3,172,848	\$6,290,000	\$12,702,848	\$764,500	\$7,177,348	\$2,101,323	\$8,514,169	32.8%	0.5%
	1.1.M.D	MMMD Total	\$2,539,948	\$2,710,000	\$5,049,948	\$744,000	\$3,083,948	\$1,082,181	\$3,422,127	46.2%	0.3%
	1.1.M.E	MMME Total	\$1,785,748	\$4,168,200	\$16,954,948	\$592,640	\$12,379,388	\$1,443,476	\$13,202,222	12.2%	0.3%
	1.1.M.F	MMMF Total	\$1,017,120	\$800,000	\$1,801,120	\$195,000	\$1,296,120	\$308,776	\$1,409,896	28.0%	0.1%
	1.1.M.G	MMMG Total	\$2,483,808	\$1,850,000	\$4,333,808	\$382,500	\$2,865,308	\$677,876	\$3,161,684	27.3%	0.2%
11 Total			\$10,853,440	\$42,788,200	\$113,645,660	\$7,388,140	\$78,246,600	\$15,319,273	\$86,177,733	21.6%	3.7%
	1.1.N.A	NAAA Total	\$93,622,709	\$10,943,400	\$106,766,109	\$4,726,700	\$100,649,409	\$5,128,007	\$100,950,713	5.4%	1.2%
	1.1.N.B	NBA A Total	\$17,912,647	\$16,714,400	\$190,639,947	\$7,405,940	\$181,630,487	\$7,899,466	\$182,024,013	4.5%	1.9%
	1.1.N.C	NCAA Total	\$7,421,178	\$6,545,000	\$79,968,178	\$3,228,600	\$76,649,773	\$3,259,435	\$76,680,608	4.4%	0.8%
	1.1.N.D	NDAA Total	\$20,361,288	\$3,498,800	\$24,350,088	\$1,049,400	\$21,900,688	\$1,442,754	\$22,294,042	6.9%	0.3%
12 Total			\$34,219,714	\$37,701,600	\$401,921,314	\$16,410,640	\$380,630,354	\$17,729,662	\$381,849,376	4.9%	4.3%
S&S Total			\$28,494,677	\$3,265,800	\$32,760,377	\$1,632,900	\$31,127,477	\$1,639,405	\$31,133,982	5.6%	0.4%
Grand Total			\$1,922,010,920	\$959,471,550	\$2,881,482,370	\$336,535,355	\$2,257,846,175	\$415,524,356	\$2,337,635,176	21.6%	100.0%

Total Risk: \$415,524,356

100.0%

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation @ 80% Confidence Level

Description			Risk Identification And Analysis				Crystal Ball Analysis			
PBS	WBS	Control Account	Minimum	Impact Cost \$	Maximum	Probable Cost \$	Probable Cost \$ + Baseline	Risk \$ only @ 80% CL	Baseline + Risk @ the 80% CL	Risk % of Site Risk Total
1	1.1.A.A	AMGT Total	\$1,177,898,838	\$1,680,000	\$13,439,838	\$504,000	\$12,263,838	\$1,051,562	\$12,811,400	0.2%
	1.1.A.B	ASVC Total	\$1,170,642,846	\$30,635,000	\$170,642,846	\$9,952,000	\$149,964,846	\$19,373,852	\$159,386,698	3.2%
	1.1.A.C	AFLD Total	\$30,802,849	\$17,800,000	\$48,402,849	\$3,585,000	\$34,187,849	\$10,710,485	\$41,313,334	1.7%
	1.1.A.D	APRJ Total	\$18,359,185	\$1,455,000	\$19,845,185	\$846,500	\$19,035,685	\$966,088	\$19,355,283	0.2%
	1 Total		\$2,007,647,28	\$51,566,000	\$252,330,728	\$14,887,500	\$232,452,228	\$32,101,987	\$232,866,715	5.2%
2	1.1.B.A	BFDP Total	\$2,170,181,818	\$840,000	\$2,170,181,818	\$157,500	\$2,185,931,818	\$498,453	\$22,200,271	0.1%
	1.1.B.B	BFUD Total	\$5,147,785	\$510,000	\$5,657,785	\$127,500	\$5,278,285	\$311,304	\$5,459,099	0.1%
	1.1.B.C	BFDD Total	\$7,889,123	\$1,850,000	\$9,739,123	\$462,500	\$9,321,623	\$1,130,239	\$68,989,362	1.7%
	1.1.B.D	BDFW Total	\$988,103	\$500,000	\$1,488,103	\$50,000	\$1,046,103	\$287,920	\$1,284,023	0.0%
	2 Total		\$8,115,104,839	\$3,700,000	\$9,404,839	\$797,500	\$8,602,339	\$927,915	\$97,932,754	2.3%
3	1.1.C.A	CECP Total	\$1,765,957	\$1,400,000	\$19,185,957	\$700,000	\$18,485,957	\$952,319	\$18,717,676	5.4%
	1.1.C.B	CAEN Total	\$3,035,000	\$3,035,000	\$3,035,000	\$1,287,000	\$11,281,710	\$1,986,498	\$11,981,208	19.9%
	1.1.C.C	CBSP Total	\$3,730,059	\$585,000	\$3,730,059	\$129,500	\$3,269,559	\$355,900	\$3,485,959	11.4%
	1.1.C.D	CLTS Total	\$1,741,495	\$125,000	\$1,596,495	\$62,500	\$1,533,995	\$85,647	\$1,557,142	0.1%
	1.1.C.E	CDG1 Total	\$103,940,882	\$88,790,000	\$117,270,882	\$16,378,000	\$120,318,982	\$41,492,989	\$145,433,981	39.9%
4	1.1.E.A	FEAMG Total	\$140,383,199	\$74,585,000	\$214,978,199	\$18,637,000	\$199,030,199	\$45,254,078	\$185,647,277	7.4%
	1.1.E.B	EBAL Total	\$8,951,860	\$500,000	\$9,451,860	\$250,000	\$9,201,860	\$344,047	\$8,695,907	4.1%
	1.1.E.C	ECED Total	\$20,932,484	\$2,150,000	\$23,082,484	\$1,115,000	\$22,047,484	\$1,480,049	\$22,412,533	7.1%
	1.1.E.D	EDSD Total	\$19,479,814	\$3,162,500	\$22,641,814	\$1,390,250	\$20,869,564	\$2,092,147	\$21,571,461	10.7%
	1.1.E.E	FEFW Total	\$13,285,320	\$3,780,000	\$17,045,320	\$1,593,500	\$14,868,820	\$2,494,797	\$15,760,117	17.8%
5	1.1.E.F	FEFW Total	\$80,651,720	\$62,988,000	\$143,639,720	\$14,249,400	\$134,801,720	\$38,625,239	\$119,076,959	47.8%
	1.1.E.F	FEFC Total	\$22,695,832	\$2,650,000	\$25,245,832	\$882,500	\$23,478,132	\$1,681,327	\$24,276,959	7.4%
	1.1.E.G	EGMR Total	\$26,663,089	\$3,568,000	\$30,231,089	\$1,498,400	\$28,161,489	\$2,349,549	\$29,012,638	8.8%
	4 Total		\$191,839,419	\$78,788,500	\$270,637,919	\$20,979,050	\$222,818,469	\$48,967,155	\$240,806,574	25.5%
6	1.1.F.A	FEAA Total	\$8,207,673	\$8,200,000	\$16,407,673	\$3,030,000	\$12,237,673	\$5,571,300	\$13,778,873	0.5%
	1.1.F.B	FCBB Total	\$153,609,878	\$3,520,000	\$227,009,878	\$38,100,000	\$191,609,878	\$50,595,497	\$204,105,376	33.0%
	1.1.F.C	FDEC Total	\$52,408,842	\$4,320,000	\$108,728,842	\$30,571,250	\$82,979,892	\$38,150,584	\$90,559,226	72.8%
	1.1.F.D	FNTW Total	\$7,922,432	\$4,000,000	\$11,922,432	\$1,000,000	\$9,322,432	\$2,457,278	\$9,779,710	33.6%
	5 Total		\$223,448,828	\$140,020,000	\$361,468,828	\$73,701,250	\$285,149,776	\$96,774,659	\$318,223,185	43.7%
7	1.1.G.A	GPM1 Total	\$25,289,893	\$1,800,000	\$27,089,893	\$450,000	\$25,719,393	\$1,101,958	\$26,371,351	4.4%
	1.1.G.B	GCUB Total	\$7,717	\$0	\$7,717	\$0	\$7,717	\$0	\$7,717	0.0%
	1.1.G.B	GNRR Total	\$15,993,668	\$350,000	\$16,343,668	\$45,000	\$15,438,668	\$203,556	\$15,597,424	1.3%
	1.1.G.C	GCJ3 Total	\$196,331	\$0	\$196,331	\$0	\$196,331	\$0	\$196,331	0.0%
	1.1.G.C	GCJ1 Total	\$8,413	\$0	\$8,413	\$0	\$8,413	\$0	\$8,413	0.0%
8	1.1.G.C	GCJ2 Total	\$15,673	\$0	\$15,673	\$0	\$15,673	\$0	\$15,673	0.0%
	1.1.G.D	G211 Total	\$3,555,500	\$311,000	\$3,866,500	\$89,300	\$3,777,200	\$193,304	\$3,970,504	2.9%
	1.1.G.E	G3A1 Total	\$14,770,774	\$20,142,000	\$34,912,774	\$6,073,100	\$28,839,674	\$12,612,478	\$27,383,252	85.4%
	1.1.G.E	GCJ3 Total	\$16,944	\$0	\$16,944	\$0	\$16,944	\$0	\$16,944	0.0%
	1.1.G.E	GCW3 Total	\$258,638	\$0	\$258,638	\$0	\$258,638	\$0	\$258,638	0.0%
9	1.1.G.F	G4A1 Total	\$12,334	\$0	\$12,334	\$0	\$12,334	\$0	\$12,334	0.0%
	1.1.G.F	G4B1 Total	\$13,141,426	\$15,531,000	\$28,672,426	\$3,108,200	\$25,564,226	\$9,237,754	\$22,379,180	70.3%
	1.1.G.G	G3B1 Total	\$12,165,935	\$715,000	\$12,880,935	\$320,350	\$12,468,285	\$479,312	\$12,645,247	3.9%
	1.1.G.H	G4B1 Total	\$202,467,719	\$17,083,000	\$219,550,719	\$4,502,300	\$215,048,419	\$10,556,682	\$40,805,461	34.9%
	1.1.G.J	G511 Total	\$10,684,674	\$455,000	\$11,139,674	\$129,700	\$10,694,374	\$281,420	\$10,846,094	2.7%
10	1.1.G.K	G611 Total	\$217,654,009	\$4,922,000	\$222,576,009	\$1,393,500	\$221,182,509	\$3,063,144	\$24,818,553	14.1%
	1.1.G.M	G711 Total	\$8,856,839	\$1,529,000	\$10,385,839	\$468,400	\$9,917,439	\$968,918	\$9,825,757	10.9%
	1.1.G.N	G811 Total	\$155,489	\$92,000	\$247,489	\$9,200	\$238,289	\$52,417	\$290,706	91.2%
	1.1.G.P	G911 Total	\$462,080	\$106,000	\$568,080	\$21,200	\$546,880	\$63,589	\$525,679	13.8%
	1.1.G.Q	GPR1 Total	\$2,680,989	\$168,000	\$2,848,989	\$51,300	\$2,797,689	\$105,366	\$2,796,375	3.9%
6 Total			\$162,467,218	\$63,204,000	\$225,661,218	\$16,681,550	\$179,138,765	\$38,919,917	\$201,377,132	24.0%
										6.3%

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation @ 80% Confidence Level

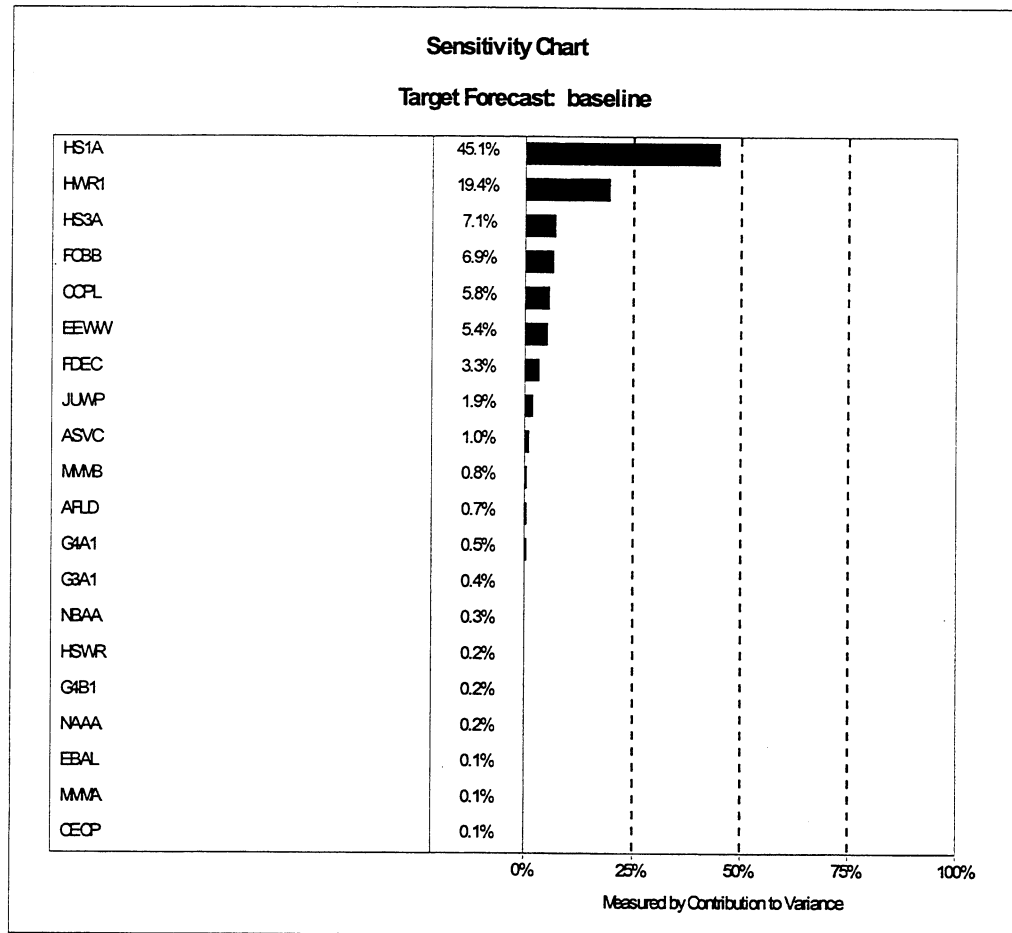
Description			Risk Identification And Analysis					Crystal Ball Analysis				
PBS	WBS	Control Account	Minimum	Maximum	Impact Cost \$	Probable Cost \$	Probable Cost \$ + Baseline \$	Likeliest	Risk \$ only @ 80% CL	Baseline + Risk @ the 80% CL	% Increase In Baseline	Risk % of Site Risk Total
7 Total	1.1.H.A	HPM1 Total	\$10,457,639	\$13,207,539	\$2,750,000	\$1,375,000	\$11,832,539	\$1,893,977	\$12,351,516	18.1%	0.3%	
	1.1.H.B	HS3A Total	\$39,260,748	\$118,099,696	\$78,849,450	\$32,469,125	\$71,719,271	\$51,664,852	\$90,914,998	131.6%	8.4%	
	1.1.H.C	HSWR Total	\$5,328,385	\$19,838,385	\$13,512,000	\$6,756,000	\$12,082,385	\$9,193,192	\$14,519,577	172.6%	1.5%	
	1.1.H.C	HWR1 Total	\$9,850,701	\$22,177,470	\$12,741,000	\$50,190,100	\$144,510,801	\$93,241,788	\$177,602,489	88.2%	13.5%	
	1.1.H.D	HS1A Total	\$133,662,643	\$422,260,843	\$188,898,000	\$54,110,400	\$287,473,043	\$117,700,167	\$351,062,810	50.4%	19.1%	
			\$382,757,414	\$784,180,864	\$411,423,450	\$144,900,825	\$527,658,039	\$263,683,975	\$646,451,389	68.9%	42.9%	
			\$3,919,244	\$9,189,244	\$2,500,000	\$500,000	\$3,989,244	\$150,831	\$9,070,075	1.7%	0.0%	
8 Total	1.1.J.B	JNMP Total	\$9,785,635	\$13,923,635	\$5,138,000	\$1,990,100	\$10,773,735	\$3,340,214	\$12,125,849	38.0%	0.5%	
	1.1.J.C	JUNP Total	\$2,177,005	\$7,845,005	\$35,928,000	\$13,560,600	\$35,277,605	\$23,596,000	\$45,313,005	108.7%	3.8%	
			\$39,421,884	\$80,737,884	\$41,316,000	\$15,600,700	\$55,022,584	\$27,087,045	\$66,508,929	4.4%	0.0%	
	1.1.K.A	KBWT Total	\$1,828,779	\$1,878,479	\$350,000	\$87,500	\$1,413,979	\$214,542	\$1,541,021	16.2%	0.0%	
	1.1.K.B	KBRT Total	\$9,833,284	\$14,408,284	\$5,575,000	\$2,162,500	\$10,995,784	\$3,627,740	\$12,461,034	41.1%	0.6%	
	1.1.K.C	KBNR Total	\$2,845,000	\$9,478,000	\$3,632,000	\$1,478,900	\$6,324,900	\$2,389,091	\$7,235,091	49.3%	0.4%	
	1.1.K.D	KBSD Total	\$1,803,848	\$2,380,848	\$775,000	\$232,500	\$1,838,448	\$486,606	\$2,092,552	30.3%	0.1%	
10 Total	1.1.K.E	KBTS Total	\$1,803,195	\$1,805,195	\$0	\$0	\$1,805,195	\$0	\$1,805,195	0.0%	0.0%	
	1.1.K.F	KBHW Total	\$3,726,862	\$4,287,862	\$571,000	\$57,100	\$3,783,762	\$331,558	\$4,058,220	8.9%	0.1%	
	1.1.K.G	KBLA Total	\$22,650,845	\$100,726,845	\$200,000	\$100,000	\$99,726,845	\$136,500	\$943,769	16.9%	0.0%	
			\$107,993,288	\$33,753,845	\$11,103,000	\$4,118,500	\$26,789,345	\$7,186,038	\$29,836,883	31.7%	1.2%	
	1.1.M.A	MMMA Total	\$10,793,288	\$13,298,288	\$2,500,000	\$1,050,000	\$11,848,288	\$1,634,200	\$12,430,486	15.1%	0.3%	
	1.1.M.B	MMMB Total	\$3,937,708	\$6,407,708	\$2,470,000	\$3,659,500	\$39,597,208	\$14,449,113	\$50,386,821	40.2%	2.3%	
	1.1.M.C	MMMC Total	\$6,412,848	\$12,702,848	\$6,290,000	\$764,500	\$7,177,348	\$3,651,758	\$10,064,504	56.9%	0.6%	
11 Total	1.1.M.D	MMMD Total	\$2,839,248	\$5,049,248	\$2,710,000	\$744,000	\$3,083,948	\$1,667,441	\$4,007,387	71.3%	0.3%	
	1.1.M.E	MMME Total	\$1,178,874	\$15,854,948	\$4,168,200	\$592,640	\$12,879,388	\$2,401,760	\$14,188,506	20.4%	0.4%	
	1.1.M.F	MMMF Total	\$1,101,120	\$1,801,120	\$800,000	\$195,000	\$1,296,120	\$486,406	\$1,587,526	44.2%	0.1%	
	1.1.M.G	MMMG Total	\$3,483,808	\$4,333,808	\$1,850,000	\$382,500	\$2,866,308	\$1,126,579	\$3,510,387	45.4%	0.2%	
			\$70,858,480	\$113,646,660	\$42,788,200	\$7,388,140	\$78,246,600	\$25,417,257	\$86,275,717	35.9%	4.1%	
	1.1.N.A	NAAA Total	\$95,822,708	\$106,796,108	\$10,943,400	\$7,326,700	\$100,649,408	\$7,239,091	\$103,061,797	7.6%	1.2%	
	1.1.N.B	NBA Total	\$17,124,647	\$190,838,947	\$16,714,400	\$7,405,940	\$181,530,487	\$11,130,698	\$185,255,245	6.4%	1.8%	
12 Total	1.1.N.C	NCAA Total	\$7,421,173	\$79,986,173	\$6,545,000	\$3,228,600	\$78,849,773	\$4,452,414	\$77,873,587	6.1%	0.7%	
	1.1.N.D	NDAA Total	\$20,651,288	\$24,360,088	\$3,498,800	\$1,049,400	\$21,800,688	\$2,189,182	\$23,050,470	10.5%	0.4%	
			\$364,219,744	\$401,921,314	\$37,011,600	\$16,410,640	\$380,630,354	\$25,021,385	\$389,241,099	6.9%	4.1%	
	1.2.C	PSEC Total	\$29,494,577	\$32,760,377	\$3,265,800	\$1,632,900	\$31,127,477	\$2,252,429	\$31,747,006	7.6%	0.4%	
	S&S Total		\$29,494,577	\$32,760,377	\$3,265,800	\$1,632,900	\$31,127,477	\$2,252,429	\$31,747,006	7.6%	0.4%	
	Grand Total		\$1,822,010,820	\$2,881,482,370	\$959,471,550	\$335,535,355	\$2,257,546,175	\$614,903,839	\$2,536,914,659	32.0%	100.0%	
	Total Risk:										\$614,903,839	

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Crystal Ball Report

Simulation started on 9/10/01 at 14:42:04

Simulation stopped on 9/10/01 at 14:46:58



Closure Plan Rev 1a Risk Analysis Probabilistic Correlated Simulation @ 50% Confidence Level

Description				Risk Identification And Analysis				Crystal Ball Analysis 50%			
PBS	WBS	Assumptions	Control Account	Minimum	Impact Cost \$	Maximum	Probable Cost \$	Risk \$ only @ 50% CL	Baseline + Risk @ the 50% CL	% Increase in Baseline	Risk % of Site Risk Total
1	1.1.A.C	AFLD	AFLD	\$30,602,849	\$17,800,000	\$48,402,849	\$3,585,000				
1	1.1.A.B	ASVC	ASVC	\$140,012,846	\$30,630,000	\$170,642,846	\$9,952,000				
1	1.1.A.A	ASVC Total		\$140,012,846	\$30,630,000	\$170,642,846	\$9,952,000				
1	1.1.A.A	PBS1AO	AMGT	\$11,739,838	\$1,680,000	\$13,419,838	\$504,000				
1	1.1.A.D	PBS1AO	APRJ	\$18,389,955	\$1,456,000	\$19,845,955	\$646,500				
1	1.1.A.D	PBS1AO Total		\$20,229,910	\$3,136,000	\$23,365,910	\$1,150,500				
2	1.1.B.A	PBS2AO	BFDP	\$21,701,818	\$840,000	\$22,541,818	\$157,500				
2	1.1.B.B	PBS2AO	BFUD	\$5,147,795	\$510,000	\$5,657,795	\$127,500				
2	1.1.B.C	PBS2AO	BFDD	\$67,850,123	\$1,850,000	\$69,700,123	\$462,500				
2	1.1.B.D	PBS2AO	BDFW	\$93,103	\$500,000	\$1,493,103	\$50,000				
2	1.1.B.D	PBS2AO Total		\$93,103	\$500,000	\$1,493,103	\$50,000				
3	1.1.C.D	CCPL	CCPL	\$103,941,882	\$68,790,000	\$172,730,882	\$16,378,000				
3	1.1.C.A	PBS3AO	CECP	\$17,785,357	\$1,400,000	\$19,185,357	\$700,000				
3	1.1.C.B	PBS3AO	CAEN	\$3,994,710	\$3,035,000	\$7,029,710	\$1,287,000				
3	1.1.C.C	PBS3AO	CBSP	\$1,130,059	\$585,000	\$1,715,059	\$129,500				
3	1.1.C.C	PBS3AO	CLTS	\$1,471,408	\$125,000	\$1,596,408	\$82,500				
3	1.1.C.E	PBS3AO	CDG1	\$1,400,588	\$650,000	\$2,050,588	\$80,000				
3	1.1.C.E	PBS3AO Total		\$1,400,588	\$650,000	\$2,050,588	\$80,000				
4	1.1.E.E	PBS4AO	EEWW	\$90,651,720	\$62,988,000	\$153,639,720	\$14,249,400				
4	1.1.E.A	PBS4AO	EMAG	\$3,511,660	\$500,000	\$4,011,660	\$250,000				
4	1.1.E.B	PBS4AO	EBAL	\$29,832,284	\$2,150,000	\$31,982,284	\$1,115,000				
4	1.1.E.C	PBS4AO	ECEN	\$18,478,314	\$3,162,500	\$21,640,814	\$1,390,250				
4	1.1.E.D	PBS4AO	EODS	\$13,335,320	\$3,780,000	\$17,115,320	\$1,563,500				
4	1.1.E.F	PBS4AO	EDEC	\$2,595,692	\$2,650,000	\$5,245,692	\$882,500				
4	1.1.E.G	PBS4AO	EGMR	\$26,681,069	\$3,568,000	\$30,249,069	\$1,498,400				
4	1.1.E.G	PBS4AO Total		\$26,681,069	\$3,568,000	\$30,249,069	\$1,498,400				
5	1.1.F.B	FCBB	FCBB	\$15,339,819	\$73,500,000	\$88,839,819	\$38,100,000				
5	1.1.F.C	FDEC	FDEC	\$2,498,642	\$4,320,000	\$6,818,642	\$30,571,250				
5	1.1.F.A	PBS5AO	FEAA	\$8,207,673	\$8,200,000	\$16,407,673	\$4,030,000				
5	1.1.F.D	PBS5AO	FNW	\$1,322,432	\$4,000,000	\$5,322,432	\$1,000,000				
5	1.1.F.D	PBS5AO Total		\$1,322,432	\$4,000,000	\$5,322,432	\$1,000,000				
6	1.1.G.G	G3B1	G3B1	\$12,165,936	\$715,000	\$12,880,936	\$370,350				
6	1.1.G.H	G4B1	G4B1	\$30,248,779	\$17,083,000	\$47,331,779	\$4,502,300				
6	1.1.G.K	G611	G611	\$21,765,409	\$4,922,000	\$26,687,409	\$1,393,500				
6	1.1.G.M	G711	G711	\$3,836,839	\$1,529,000	\$5,365,839	\$488,400				
6	1.1.G.A	PBS6AO	GPM1	\$28,259,393	\$1,800,000	\$30,059,393	\$450,000				
6	1.1.G.B	PBS6AO	GCU9	\$1,717	\$0	\$1,717	\$0				
6	1.1.G.B	PBS6AO	GNRR	\$15,383,588	\$350,000	\$15,733,588	\$45,000				
6	1.1.G.C	PBS6AO	GC13	\$18,332	\$0	\$18,332	\$0				
6	1.1.G.C	PBS6AO	GC13	\$6,413	\$0	\$6,413	\$0				
6	1.1.G.C	PBS6AO	GC13	\$15,873	\$0	\$15,873	\$0				
6	1.1.G.D	PBS6AO	GC21	\$4,665,300	\$311,000	\$4,976,300	\$89,300				
6	1.1.G.E	PBS6AO	G3A1	\$11,720,774	\$20,142,000	\$31,862,774	\$6,073,100				
6	1.1.G.E	PBS6AO	GCJ3	\$18,944	\$0	\$18,944	\$0				
6	1.1.G.E	PBS6AO	GCJ3	\$258,638	\$0	\$258,638	\$0				
6	1.1.G.F	PBS6AO	GCW3	\$12,334	\$0	\$12,334	\$0				
6	1.1.G.F	PBS6AO	G4A1	\$13,141,428	\$15,531,000	\$28,672,428	\$3,108,200				
6	1.1.G.J	PBS6AO	G511	\$10,684,674	\$455,000	\$11,139,674	\$129,700				
6	1.1.G.J	PBS6AO Total		\$10,684,674	\$455,000	\$11,139,674	\$129,700				

Closure Plan Rev 1a Risk Analysis Probabilistic Correlated Simulation @ 50% Confidence Level

Description				Risk Identification And Analysis				Crystal Ball Analysis 50%			
PBS	WBS	Assumptions	Control Account	Minimum	Impact Cost \$	Impact Cost \$ + Baseline \$	Probable Cost \$	Likeleat	Risk \$ only @ 50% CL	Baseline + Risk @ the 50% CL	Risk % of Site Risk Total
6	1.1.GN	PBS9AO	G811	\$37,489	\$92,000	\$149,489	\$9,200	\$60,889			
6	1.1.GP	PBS9AO	G911	\$402,090	\$106,000	\$508,090	\$21,200	\$486,890			
6	1.1.GQ	PBS9AO	GPR1	\$2,690,989	\$168,000	\$2,858,989	\$51,300	\$2,742,289			
6 Total				\$3,129,568		\$2,657,479		\$98,407,254			
7	1.1.HA	HPM1	HPM1	\$10,457,639	\$2,750,000	\$13,207,639	\$1,375,000	\$11,832,639	\$23,742,121	\$183,196,337	13.6%
7	1.1.HD	HS1A	HS1A	\$233,467,643	\$188,898,000	\$422,365,643	\$54,110,400	\$11,832,539			
7	1.1.HB	HS3A	HS3A	\$39,260,146	\$78,849,450	\$118,099,596	\$32,469,125	\$71,719,271			
7	1.1.HC	HSWR	HSWR	\$5,323,995	\$13,512,000	\$18,835,995	\$6,766,000	\$12,069,995			
7	1.1.HC	HWRT	HWRT	\$34,950,071	\$127,414,000	\$222,774,071	\$50,190,100	\$144,583,971			
7 Total				\$33,151,111		\$240,613,086		\$156,633,186			
8	1.1.JB	JNMP	JNMP	\$7,943,338	\$5,138,000	\$13,081,338	\$1,990,100	\$10,771,338	\$17,675,595	\$39,142,979	48.7%
8	1.1.JA	JNMS	JNMS	\$9,919,244	\$250,000	\$10,169,244	\$50,000	\$10,775,735			
8	1.1.JC	JLWP	JLWP	\$21,711,005	\$35,928,000	\$57,645,005	\$13,560,600	\$35,277,605			
8 Total				\$39,573,587		\$107,737,584		\$56,822,674	\$18,343,841	\$57,667,255	48.5%
10	1.1.KA	PBS10AO	KBWT	\$1,328,478	\$350,000	\$1,678,478	\$87,500	\$1,413,978			
10	1.1.KB	PBS10AO	KBRT	\$8,853,294	\$5,575,000	\$14,428,294	\$2,162,500	\$10,995,794			
10	1.1.KC	PBS10AO	KBNR	\$1,343,000	\$3,632,000	\$4,975,000	\$1,478,900	\$3,824,900			
10	1.1.KD	PBS10AO	KBSD	\$1,835,948	\$775,000	\$2,610,948	\$232,500	\$1,938,448			
10	1.1.KE	PBS10AO	KBTS	\$1,505,195	\$0	\$1,505,195	\$0	\$1,505,195			
10	1.1.KF	PBS10AO	KBRW	\$3,268,692	\$571,000	\$3,839,692	\$57,100	\$3,782,592			
10	1.1.KG	PBS10AO	KBLA	\$507,389	\$200,000	\$1,007,389	\$100,000	\$907,389			
10 Total				\$22,550,896		\$33,753,845		\$28,769,345			
11	1.1.MA	MMMA	MMMA	\$10,763,288	\$2,500,000	\$13,263,288	\$1,050,000	\$11,846,288	\$4,868,760	\$27,541,605	22.1%
11	1.1.MB	MMMB	MMMB	\$35,937,703	\$24,470,000	\$60,407,703	\$3,659,500	\$39,597,203			
11	1.1.MC	PBS11AO	MMMC	\$8,432,346	\$6,290,000	\$14,722,346	\$764,500	\$7,177,346			
11	1.1.MD	PBS11AO	MMMD	\$2,335,948	\$2,710,000	\$5,045,948	\$744,000	\$3,083,948			
11	1.1.ME	PBS11AO	MMME	\$1,769,748	\$4,168,200	\$5,937,948	\$592,640	\$2,379,888			
11	1.1.MF	PBS11AO	MMMF	\$1,971,720	\$800,000	\$2,771,720	\$195,000	\$1,296,720			
11	1.1.MG	PBS11AO	MMMG	\$2,433,808	\$1,850,000	\$4,283,808	\$392,500	\$2,866,308			
11 Total				\$70,333,400		\$39,942,666		\$28,903,106			
12	1.1.NA	PBS12AO	NAAA	\$95,822,708	\$10,943,400	\$106,766,108	\$4,726,700	\$89,246,008	\$18,181,861	\$87,050,321	22.8%
12	1.1.NB	PBS12AO	NBAA	\$171,124,547	\$16,714,400	\$187,838,947	\$7,405,940	\$161,530,467			
12	1.1.NC	PBS12AO	NCAA	\$3,421,173	\$6,545,000	\$9,966,173	\$3,228,600	\$7,649,773			
12	1.1.ND	PBS12AO	NDA	\$20,651,268	\$3,498,800	\$24,150,068	\$1,049,400	\$21,900,668			
12 Total				\$332,019,696		\$401,921,314		\$380,630,354	\$17,903,820	\$382,023,334	4.9%
S&S	1.2.C	PSEC	PSEC	\$28,494,714	\$3,265,800	\$31,760,514	\$1,632,900	\$31,127,477			
S&S Total				\$28,494,714		\$31,760,514		\$31,127,477			
Grand Total				\$1,922,010,421		\$2,881,482,371		\$2,257,446,176	\$431,931,238	\$2,435,942,039	22.5%
Total Risk:									\$431,931,238		100.0%

Risk/Opportunity Identification and Analysis Form

Project: Facility Project Support		PBS Number: 01		Total Baseline Dollars (Minimum Case):		\$30,602,849				
Evaluator: Robert Hammac Date: 4/30/01		WBS Number: 1.1.A.C								
CAM: Bob Nichols Date: 4/30/01		Control Account Number: AFLD								
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Support Equipment	Replace equipment earlier than planned	Additional equipment procurements	Internal	\$10,000,000		3	30	2	\$3,000,000	3 Accept
Safety	Serious incident in Facilities Projects shut down operation	One year delay	Internal	\$3,900,000		3	10	2	\$390,000	3 Reduce/Mitigate
Overhead	Critical path projects (Silos) slips 1 year	One year delay	Internal	\$3,900,000		4	5	3	\$195,000	5 Reduce/Mitigate
				Total:				\$3,585,000		
Public Use Amenities		FCAB makes recommendations outside current plan	Changes in the facilities plans and lease costs	External	\$10,000,000	3	70	4	\$7,000,000	5

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: AFLD Total

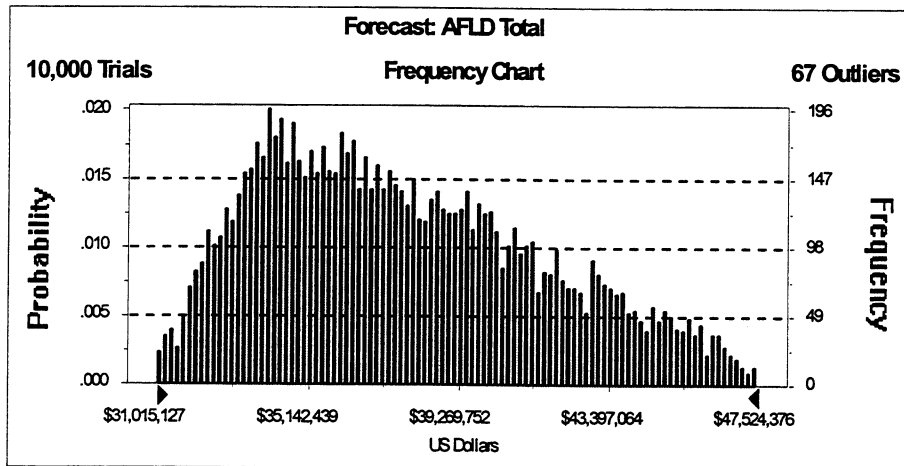
Cell: D10

Summary:

Display Range is from \$31,015,127 to \$47,524,376 US Dollars
 Entire Range is from \$30,708,966 to \$48,320,833 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$38,674

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$37,805,490
Median	\$37,251,324
Mode	---
Standard Deviation	\$3,867,448
Variance	1E + 13
Skewness	0.47
Kurtosis	2.39
Coeff. of Variability	0.10
Range Minimum	\$30,708,966
Range Maximum	\$48,320,833
Range Width	\$17,611,867
Mean Std. Error	\$38,674.48



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: AFLD Total (cont'd)

Cell: D10

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$30,708,966
5%	\$32,429,550
10%	\$33,164,471
15%	\$33,720,584
20%	\$34,178,488
25%	\$34,656,823
30%	\$35,157,916
35%	\$35,674,740
40%	\$36,171,775
45%	\$36,693,903
50%	\$37,251,324
55%	\$37,815,109
60%	\$38,467,884
65%	\$39,121,083
70%	\$39,782,280
75%	\$40,480,875
80%	\$41,313,334
85%	\$42,346,746
90%	\$43,476,446
95%	\$45,029,384
100%	\$48,320,833

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Facility Project Support		PBS Number: 01		Total Baseline Cost (Minimum Case):		\$11,759,838				
Evaluator: Robert Hammac		Date: 4/30/01		WBS Number: 1.1.A.A						
CAM: Bob Nichols		Date: 4/30/01		Control Account Number: AMGT						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Divisional Support & Integration	Project driven divisional support needs increase	need to increase manpower for short durations	Internal	\$1,680,000		3	30	3	\$504,000	34 Reduce/Mitigate
			Total:		\$1,680,000			Total:	\$504,000	

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: AMGT Total

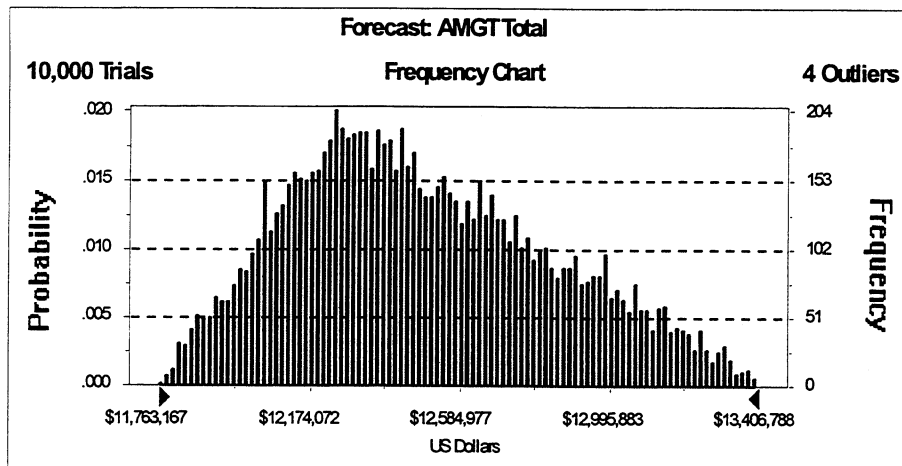
Cell: D6

Summary:

Display Range is from \$11,763,167 to \$13,406,788 US Dollars
 Entire Range is from \$11,763,167 to \$13,427,001 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$3,547

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$12,486,792
Median	\$12,440,313
Mode	---
Standard Deviation	\$354,670
Variance	1E + 11
Skewness	0.37
Kurtosis	2.39
Coeff. of Variability	0.03
Range Minimum	\$11,763,167
Range Maximum	\$13,427,001
Range Width	\$1,663,834
Mean Std. Error	\$3,546.70



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: AMGT Total (cont'd)

Cell: D6

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$11,763,167
5%	\$11,966,272
10%	\$12,050,442
15%	\$12,112,340
20%	\$12,165,050
25%	\$12,215,785
30%	\$12,259,082
35%	\$12,303,706
40%	\$12,348,967
45%	\$12,394,237
50%	\$12,440,313
55%	\$12,493,171
60%	\$12,548,926
65%	\$12,609,816
70%	\$12,669,538
75%	\$12,735,548
80%	\$12,811,400
85%	\$12,903,799
90%	\$12,999,440
95%	\$13,133,571
100%	\$13,427,001

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Facility Project Support		PBS Number: 01		Total Baseline Cost (Minimum Case):		\$18,389,195				
Evaluator: Robert Hama		Date: 4/30/01		WBS Number: 1.1.A.D						
CAM: Bob Nichols		Date: 4/30/01		Control Account Number: APRJ						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Future Lab Construction	Construction Delays lead to greater degradation of roof	Replace large portions of roof no longer repairable	Internal	\$750,000	3	70	4	\$525,000	5	Accept risk
APRJ5 - Repair Lab South Hall Roof	Increase in expected roof degradation leading to increased SOW for contractor	Insufficient budget to cover additional scope. Increase in OT; schedule delays	Internal	\$87,000	2	20	2	\$17,400	3	Reduce by performing detailed engineering analysis of roofing materials and sub-structure
Construction Management	Multiple projects get expanded scopes	Additional work required to complete projects	Internal	\$400,000	3	20	2	\$80,000	3	Reduce by performing detailed engineering analysis
Craft Availability, Project Schedule	Insufficient available craft on multiple projects	Increase in OT; schedule delays	Internal	\$175,000	2	10	1	\$17,500	1	Accept risk
Procurement of FF furnished materials	Untimely delivery of materials on multiple projects	Schedule delay of 6 weeks	Internal	\$44,000	2	15	2	\$6,600	3	Reduce by identifying a secondary vendor
Total:				\$1,456,000			Total:	\$646,500		

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: APRJ Total

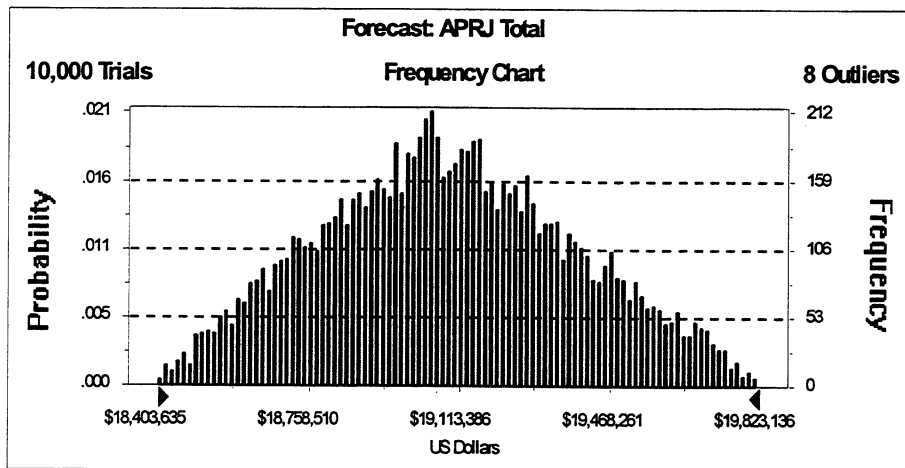
Cell: D12

Summary:

Display Range is from \$18,403,635 to \$19,823,136 US Dollars
 Entire Range is from \$18,394,916 to \$19,836,367 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$2,987

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$19,089,379
Median	\$19,079,933
Mode	---
Standard Deviation	\$298,712
Variance	#####
Skewness	0.10
Kurtosis	2.40
Coeff. of Variability	0.02
Range Minimum	\$18,394,916
Range Maximum	\$19,836,367
Range Width	\$1,441,452
Mean Std. Error	\$2,987.12



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: APRJ Total (cont'd)

Cell: D12

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$18,394,916
5%	\$18,605,273
10%	\$18,691,071
15%	\$18,758,507
20%	\$18,818,907
25%	\$18,871,221
30%	\$18,920,600
35%	\$18,963,710
40%	\$19,005,308
45%	\$19,042,507
50%	\$19,079,933
55%	\$19,120,701
60%	\$19,159,568
65%	\$19,202,839
70%	\$19,250,245
75%	\$19,298,261
80%	\$19,355,283
85%	\$19,421,104
90%	\$19,499,369
95%	\$19,605,135
100%	\$19,836,367

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Facility Project Support		PBS Number: 01		Total Baseline Cost (Minimum Case):		\$140,012,846						
Evaluator: Robert Hammack		Date: 4/30/01		WBS Number: 1.1.A.B.								
CAM: Bob Nichols		Date: 4/30/01		Control Account Number: ASVC								
Project Task		Risk and/or Opportunity		Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Disposition Excess Property (ASVC1)		Reclassify AIP property in abandoned facilities as excess property (50% additional scope)		Additional resources needed to remove and disposition excess property	Internal	\$920,000	2	10	2	\$92,000	3	Accept
Roof Repairs (ASVC3)		Increase in expected roof degradation leading to leaks (not B53)		Increased cost in roof repairs	Internal	\$225,000	2	85	5	\$191,250	3	Accept - Remaining property excessed in place
HVAC Repairs (ASVC3)		Building demolition schedule delayed, requiring longer HVAC service (not B53)		Increased repair to existing HVAC systems	Internal	\$200,000	2	85	5	\$170,000	3	Accept
HVAC Replacement (ASVC3)		Building demolition schedule delayed, requiring longer HVAC service		Total replacement of HVAC systems	Internal	\$500,000	2	75	3	\$375,000	2	Accept
Craft Availability (ASVC3)		Lack of available craft support personnel		Increase in OT; delays in work schedules	Internal	\$1,000,000	3	50	3	\$500,000	3	Accept
Maintenance (ASVC3)		Maintenance required to "fix" problems incurred by the installation of services/facilities by subcontractors. (ASVC3)		Lack of funding and/or inadequate manpower to support this additional responsibility (while maintaining current site duties).	Internal	\$350,000	2	10	1	\$35,000	1	Accept
Maintenance (ASVC3)		Maintenance required to "fix" problems incurred by the installation of services/facilities by subcontractors. (ASVC3)		Lack of funding and/or inadequate manpower to support this additional responsibility (while maintaining current site duties).	Internal	\$70,000	4	70	1	\$49,000	2	Accept
Maintenance (ASVC3)		Increase in Maintenance manpower requirements due to additional facility maintenance. (ASVC3)		Lack of funding and/or inadequate manpower to support this additional responsibility (while maintaining current site duties).	Internal	\$200,000	2	20	2	\$40,000	2	Accept

Risk/Opportunity Identification and Analysis Form

Project: Facility Project Support		PBS Number: 01		Total Baseline Cost (Minimum Case): \$140,012,846									
Evaluator: Robert Hammack		Date: 4/30/01		WBS Number: 1.1.A.B.									
CAM: Bob Nichols		Date: 4/30/01		Control Account Number: ASVC									
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy			
Maintenance (ASVC3)	Unanticipated turnover of equipment/facilities by subcontractors. (ASVC3)	Lack of funding and/or inadequate manpower to support this additional responsibility (while maintaining current site duties).	Internal	\$70,000	1	50	3	\$35,000	1	Accept			
Maintenance (ASVC3)	More failures in utility services than baselined. (ASVC3)	Lack of funding and/or inadequate manpower to support this additional responsibility (while maintaining current site duties).	Internal	\$210,000	2	20	2	\$42,000	2	Accept			
Maintenance (ASVC3)	Additional training costs due to workforce turnover. (ASVC3)	Lack of funding and/or inadequate manpower to support this additional responsibility (while maintaining current site duties).	Internal	\$70,000	1	50	3	\$35,000	1	Accept			
Maintenance (ASVC3)	Unanticipated RAD exposure to workers (such as those supporting current projects such as IT) (ASVC3)	Loss of craft (because they will not be allowed on the controlled side for a period of time) manpower, which will in turn increase backlog and may require additional craft support either from upgrading internally or by external sources.	Internal	\$150,000	2	20	2	\$30,000	1	Reduce/Mitigate			
Maintenance (ASVC3)	Repair parts not available on certain aging systems (which then require new full installations). (ASVC3)	Lack of funding to support these unanticipated repairs (if deemed "necessary" systems).	Internal	\$3,890,000	3	25	2	\$1,472,250	3	Reduce/Mitigate, Identify possible needs			
Distributes site laundry/PPE (ASVC4)	Laundry Subcontract /Service is cancelled or shutdown	Additional resources needed to implement on-site laundry service	Internal	\$4,900,000	3	10	2	\$490,000	3	Accept			

Risk/Opportunity Identification and Analysis Form

Project: Facility Project Support		PBS Number: 01		Total Baseline Cost (Minimum Case):		\$140,012,846				
Evaluator: Robert Hammack		Date: 4/30/01		WBS Number: 1.1.A.B.						
CAM: Bob Nichols		Date: 4/30/01		Control Account Number: ASVC						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Collection of Sewage and Transference to Sewage Treatment (ASVC5)	Failure of either or both sewage lift station pumps. Building will also require some repairs.	Loss of the use of restroom facilities for increased costs due to additional port-a-lets. Possible environmental impact.	Internal	\$150,000	2	95	5	\$142,500	3	Accept
Supply Steam to facilities (ASVC5)	Steam Leaks in Overhead lines or Boiler shutdown cause failure to deliver steam to part or all of site	Catastrophic facilities losses due to damage to equipment/facilities. Possible radiological or asbestos concerns.	Internal	\$8,000,000	2	70	4	\$3,464,500	2	Reduce/Mitigate
Supply Steam to facilities (ASVC5)	Loss of Feed Water Pumps.	Replace pumps. Possible collateral damaged due to cold and water damage.	Internal	\$75,000	1	70	4	\$52,500	2	Reduce/Mitigate
Supply Compressed air to site (ASVC5)	Loss of one or both air compressors. motor failure within two years	Shutdown of some AWWT operations. Loss of ability to control some valves and HVAC controls	Internal	\$300,000	2	75	5	\$225,000	3	Accept
Off-Site Leases (ASVC5)	The leases are cancelled before contract terms	Higher lease cost for off-site office space and warehouse facilities	Internal	\$8,000,000	4	25	2	\$2,000,000	5	Accept
Off-Site Leases (ASVC5)	The leases prices are increased at end of existing contract period greater than expected (Consumer Price Index)	Higher lease cost for off-site office space and warehouse facilities by 5%	Internal	\$700,000	2	50	3	\$350,000	2	Accept
ASVC6 - Labor Hour Support	Additional craft training costs due to workforce turnover	Insufficient budget	Internal	\$240,000	3	50	3	\$120,000	4	Reduce by planning and scheduling projects to maintain stable workforce
ASVC6 - Labor Hour Support	Insufficient available craft	Delays to project schedules	Internal	\$60,000	2	10	1	\$6,000	1	Reduce by identifying and planning project early and communicating needs to union halls
ASVC6 - Labor Hour Support	Damage to equipment occurs during job	Replacement/repair of equipment	Internal	\$300,000	1	10	1	\$30,000	1	Accept risk
ASVC6 - Labor Hour Support	Contractor default	Procure new contractor	Internal	\$50,000	1	10	1	\$5,000	1	Accept risk

Risk/Opportunity Identification and Analysis Form

Project: Facility Project Support			PBS Number: 01			Total Baseline Cost (Minimum Case):			\$140,012,846		
Evaluator: Robert Hammack			WBS Number: 1.1.A.B.								
CAM: Bob Nichols			Date: 4/30/01								
Project Task			Risk and/or Opportunity			Control Account Number ASVC					
			Potential Impact			Internal Or External Driver			Impact Cost \$ (Maximum Case)		
			Risk Probability %			Risk Probability Level			Risk Probability Value		
			Risk Handling Strategy								
			Total:			\$30,630,000			Total:		
									\$9,952,000		
Maintenance (ASVC3)	Increase in procedural requirements imposed by external audits. (ASVC3)	Various, although additional requirements generally increase unanticipated manpower, which in turn require more funding.	External	\$250,000	2	20	2	\$50,000	2		2
Maintenance (ASVC3)	Changes to asbestos compliance regulations (by state, federal, and site groups). (ASVC3)	Various, although additional requirements generally increase unanticipated manpower, which in turn require more funding.	External	\$50,000	1	10	1	\$5,000	1		1
Maintenance (ASVC3)	Changes to OSHA standards (such as more stringent scaffolding requirements).	Various, although additional requirements generally increase unanticipated manpower, which in turn require more funding.	External	\$100,000	2	10	1	\$10,000	1		1
Maintenance (ASVC3)	Minor repair for damage by forces of nature (such as lightning strikes to facilities). (ASVC3)	Various, depending on the type of damage and the source.	External	\$100,000	2	5	1	\$5,000	1		1
Inspect rigging and fall protection equipment/activities (ASVC5)	Regulatory drivers, such as OSHA or DOE, change	Increased frequencies of inspections	External	\$400,000	2	25	2	\$100,000	2		2

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: ASVC Total

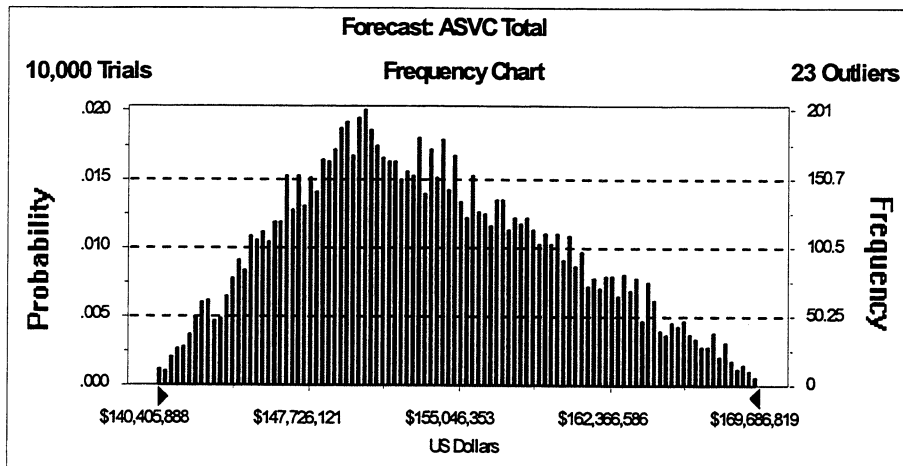
Cell: D8

Summary:

Display Range is from \$140,405,888 to \$169,686,819 US Dollars
 Entire Range is from \$140,108,736 to \$170,295,527 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$63,670

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$153,538,770
Median	\$152,938,058
Mode	---
Standard Deviation	\$6,367,032
Variance	4E + 13
Skewness	0.31
Kurtosis	2.39
Coeff. of Variability	0.04
Range Minimum	\$140,108,736
Range Maximum	\$170,295,527
Range Width	\$30,186,791
Mean Std. Error	\$63,670.32



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: ASVC Total (cont'd)

Cell: D8

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$140,108,736
5%	\$143,978,316
10%	\$145,520,734
15%	\$146,750,920
20%	\$147,780,363
25%	\$148,724,035
30%	\$149,566,326
35%	\$150,347,757
40%	\$151,121,684
45%	\$151,996,596
50%	\$152,938,058
55%	\$153,844,090
60%	\$154,755,833
65%	\$155,780,775
70%	\$156,940,419
75%	\$158,079,874
80%	\$159,386,698
85%	\$160,832,456
90%	\$162,657,853
95%	\$164,833,669
100%	\$170,295,527

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: D&D Management		PBS Number: 02		Total Baseline Dollars (Minimum Case):		\$21,701,818				
Evaluator: M. Stevens		Date: 08-13-01		WBS Number: 111B/A		R1: 02.047				
CAM: M. Stevens		Date: 08-13-01		Control Account Number: BFDP		R1: 02.047				
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Onsite Debris-Thorium contaminated debris	Have to stage in ROB's	Purchase 60 ROB's	Internal	\$350,000	2	2	10	2	\$35,000	2 Accept
Onsite Debris-Cat Storage	Have to stage in ROB's	Purchase 70 ROB's	Internal	\$450,000	2	2	26	2	\$122,500	2 Accept
Total:				\$840,000			Total:	\$187,500		

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: BFDP Total

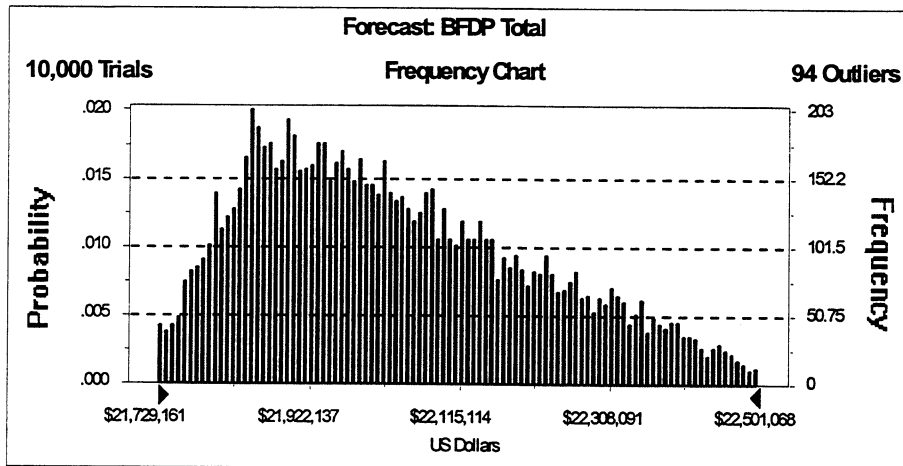
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Summary:

Display Range is from \$21,729,161 to \$22,501,068 US Dollars
 Entire Range is from \$21,704,088 to \$22,531,000 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$1,817

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$22,033,468
Median	\$22,004,407
Mode	---
Standard Deviation	\$181,725
Variance	#####
Skewness	0.51
Kurtosis	2.44
Coeff. of Variability	0.01
Range Minimum	\$21,704,088
Range Maximum	\$22,531,000
Range Width	\$826,913
Mean Std. Error	\$1,817.25



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: BFDP Total (cont'd)

Cell: D15

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$21,704,088
5%	\$21,784,648
10%	\$21,817,686
15%	\$21,844,500
20%	\$21,865,010
25%	\$21,887,842
30%	\$21,908,987
35%	\$21,932,648
40%	\$21,955,372
45%	\$21,979,463
50%	\$22,004,407
55%	\$22,030,259
60%	\$22,059,544
65%	\$22,089,053
70%	\$22,122,595
75%	\$22,157,487
80%	\$22,200,271
85%	\$22,248,344
90%	\$22,305,137
95%	\$22,375,997
100%	\$22,531,000

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Facility Isolation and Utility Redistribution		PBS Number: 02		Total Baseline Dollars (Minimum Case):		\$5,747,796				
Evaluator: M. Stevens		Date: 08-13-01		WBS Number: 11B		RT: 103-047				
CAM: M. Stevens		Date: 08-13-01		Control Account Number: BFUD						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Plant 2	none									
Plant 2										
Utility Isolation	Delay	Escalation	Internal	\$10,000		1	25	2	\$2,500	1 Accept
General Sump										
Utility Isolation	Delay	Escalation	Internal	\$10,000		1	25	2	\$2,500	1 Accept
Plant 8	none									
Health & Safety Building										
Utility Isolation	Delay	Escalation	Internal	\$2,000		1	25	2	\$500	1 Accept
Utility Redistribution	Delay	Escalation	Internal	\$10,000		1	25	2	\$2,500	1 Accept
Liquid Storage										
Utility Isolation	Delay	Escalation	Internal	\$20,000		1	25	2	\$5,000	1 Accept
Utility Redistribution	Delay	Escalation	Internal	\$20,000		1	25	2	\$5,000	1 Accept
Plant Plant										
Utility Isolation	Delay	Escalation	Internal	\$10,000		1	25	2	\$2,500	1 Accept
Laboratory										
Utility Isolation	Delay	Escalation	Internal	\$20,000		1	25	2	\$5,000	1 Accept
Administration (Includes Electrical Complex)										
Utility Isolation	Delay	Escalation	Internal	\$88,000		1	25	2	\$17,600	1 Accept
Utility Redistribution	Delay	Escalation	Internal	\$120,000		1	25	2	\$30,000	1 Accept
East Warehouse										
Utility Isolation	Delay	Escalation	Internal	\$10,000		1	25	2	\$2,500	1 Accept
Miscellaneous Structures										
Utility Isolation	Delay	Escalation	Internal	\$75,000		1	25	2	\$18,750	1 Accept
Utility Redistribution	Delay	Escalation	Internal	\$120,000		1	25	2	\$30,000	1 Accept
Building 04765										
Utility Isolation	Delay	Escalation	Internal	\$5,000		1	25	2	\$1,250	1 Accept
Plant 1 Phase II										
Utility Isolation	Delay	Escalation	Internal	\$10,000		1	25	2	\$2,500	1 Accept
Plant 5	none									
Plant 6	none									
Total				\$510,000					\$127,500	

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: BFUD Total

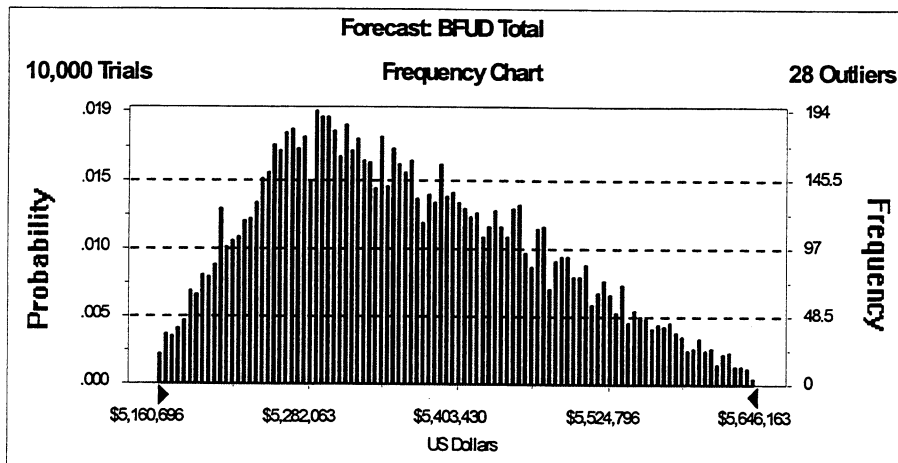
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Summary:

Display Range is from \$5,160,696 to \$5,646,163 US Dollars
 Entire Range is from \$5,150,430 to \$5,653,061 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$1,077

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$5,361,068
Median	\$5,347,739
Mode	---
Standard Deviation	\$107,737
Variance	#####
Skewness	0.40
Kurtosis	2.41
Coeff. of Variability	0.02
Range Minimum	\$5,150,430
Range Maximum	\$5,653,061
Range Width	\$502,631
Mean Std. Error	\$1,077.37



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: BFUD Total (cont'd)

Cell: D17

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$5,150,430
5%	\$5,205,599
10%	\$5,228,517
15%	\$5,247,509
20%	\$5,262,605
25%	\$5,276,136
30%	\$5,290,612
35%	\$5,303,073
40%	\$5,317,447
45%	\$5,332,174
50%	\$5,347,739
55%	\$5,363,152
60%	\$5,380,940
65%	\$5,398,322
70%	\$5,417,156
75%	\$5,438,103
80%	\$5,459,099
85%	\$5,485,203
90%	\$5,516,040
95%	\$5,557,430
100%	\$5,653,061

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: D&D Projects		PBS Number: 02		R1- F02-047		Total Baseline Dollars (Minimum Case)		\$67,853,123		
Evaluator: M. Stevens		Date: 08-13-01		WBS Number: 1118-C		R1- F02-047				
CAM: M. Stevens		Date: 08-13-01		Control Account Number: BFD		R1- F02-047				
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Plant 2	Delay	Escalation	Internal	600,000	2	25	25	2	150,000	2 Accept
Plant 3	Delay	Escalation	Internal	90,000	1	25	25	2	22,500	1 Accept
General Sump	Delay	Escalation	Internal	30,000	1	25	25	2	7,500	1 Accept
Plant 8	Delay	Escalation	Internal	240,000	2	25	25	2	80,000	2 Accept
Health & Safety Building	Delay	Escalation	Internal	80,000	1	26	26	2	2,500	1 Accept
Liquid Storage	Delay	Escalation	Internal	60,000	1	26	26	2	15,000	1 Accept
Plot Plant	Delay	Escalation	Internal	120,000	2	26	26	2	30,000	2 Accept
Laboratory	Delay	Escalation	Internal	250,000	2	25	25	2	62,500	2 Accept
Administration Includes Electrical Complex	Delay	Escalation	Internal	150,000	1	25	25	2	37,500	1 Accept
East Warehouse	Delay	Escalation	Internal	60,000	1	25	25	2	12,500	1 Accept
Miscellaneous Structures	Delay	Escalation	Internal	180,000	2	25	25	2	40,000	2 Accept
Building 64/65	Delay	Escalation	Internal	10,000	2	25	25	2	2,500	2 Accept
Plant 1, Phase U	Delay	Escalation	Internal	80,000	2	25	25	2	15,000	2 Accept
Plant 5	none									
Plant 6	none									
Total				1,850,000					462,500	

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: BFDD Total

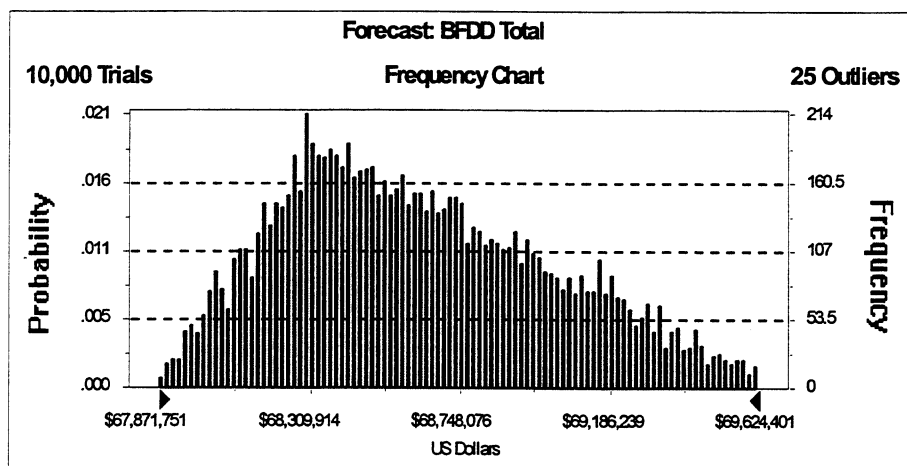
Cell: D19

Summary:

Display Range is from \$67,871,751 to \$69,624,401 US Dollars
 Entire Range is from \$67,869,945 to \$69,691,528 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$3,907

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$68,630,249
Median	\$68,579,129
Mode	---
Standard Deviation	\$390,742
Variance	2E + 11
Skewness	0.41
Kurtosis	2.40
Coeff. of Variability	0.01
Range Minimum	\$67,869,945
Range Maximum	\$69,691,528
Range Width	\$1,821,583
Mean Std. Error	\$3,907.42



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: BFDD Total (cont'd)

Cell: D19

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$67,869,945
5%	\$68,061,470
10%	\$68,155,457
15%	\$68,220,409
20%	\$68,277,040
25%	\$68,323,348
30%	\$68,370,963
35%	\$68,420,241
40%	\$68,469,872
45%	\$68,523,371
50%	\$68,579,129
55%	\$68,635,433
60%	\$68,697,996
65%	\$68,757,311
70%	\$68,829,686
75%	\$68,908,357
80%	\$68,989,362
85%	\$69,090,624
90%	\$69,196,937
95%	\$69,339,518
100%	\$69,691,528

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: D&D Offsite Debris Disposal		PBS Number: 02		RT- F02.047		Total Baseline Dollars (Minimum Case): \$996,103				
Evaluator: M. Stevens		WBS Number: 11.B.D		RT- F02.047						
CAM: M. Stevens		Control Account Number: BDFW		RT- F02.047						
Date: 5/1/2001		Date: 5/1/2001		RT- F02.047						
Date: 5/1/2001		Date: 5/1/2001		RT- F02.047						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Non WAC material can not be shipped to Envirocare, it must go the NTS	Additional packaging, handling, and shipping costs	additional labor, material and services required	Internal	\$500,000		2	10	2	\$50,000	2 Accept
Total:				\$500,000					\$50,000	

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: BDFW Total

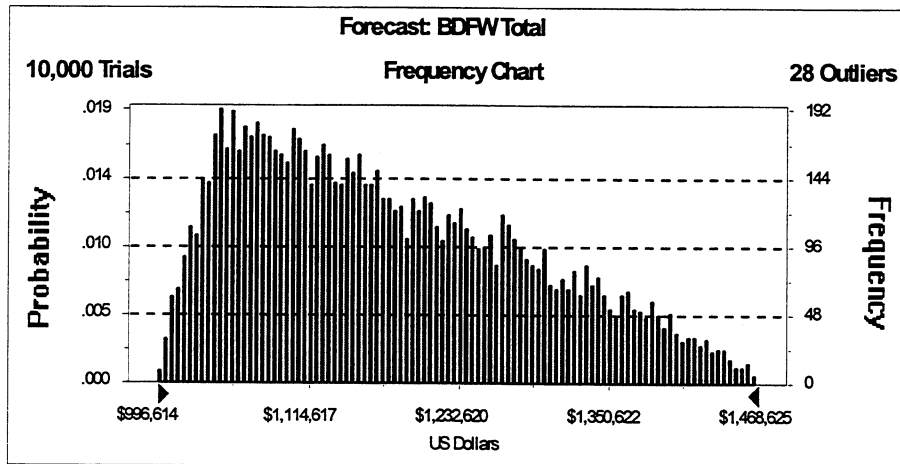
Cell: D21

Summary:

Display Range is from \$996,614 to \$1,468,625 US Dollars
 Entire Range is from \$996,614 to \$1,491,985 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$1,122

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$1,179,700
Median	\$1,161,086
Mode	---
Standard Deviation	\$112,178
Variance	#####
Skewness	0.52
Kurtosis	2.35
Coeff. of Variability	0.10
Range Minimum	\$996,614
Range Maximum	\$1,491,985
Range Width	\$495,371
Mean Std. Error	\$1,121.78



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: BDFW Total (cont'd)

Cell: D21

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$996,614
5%	\$1,030,636
10%	\$1,045,607
15%	\$1,058,536
20%	\$1,072,250
25%	\$1,085,672
30%	\$1,100,352
35%	\$1,114,205
40%	\$1,129,176
45%	\$1,145,240
50%	\$1,161,086
55%	\$1,177,628
60%	\$1,197,783
65%	\$1,216,951
70%	\$1,237,542
75%	\$1,260,921
80%	\$1,284,023
85%	\$1,313,066
90%	\$1,345,660
95%	\$1,387,339
100%	\$1,491,985

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Demolition-East Warehouse		PBS Number: 02		Total Baseline Dollars (Minimum Case): \$888,808.00					
Evaluator: M. Stevens	Date: 2-28-01	RT: 001	WBS Number: 1-1-B-Q						
GAM: M. Stevens	Date: 2-28-01	007	Control Account Number: BEWC						
Risk and/or Opportunity									
Project Task	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Utility Isolation	Escalation	Internal	\$10,000.00	1	1	26	\$2,600.00	1	Accept
Utility Redistribution	Escalation	Internal	\$0.00	1	1	26	\$0.00	1	
Demolition	Escalation	Internal	\$50,000.00	1	1	26	\$12,600.00	1	Accept
Total:			\$60,000.00			Total:	\$15,600.00		

Risk/Opportunity Identification and Analysis Form

RT-002-047	RT-002-047	Total Baseline Dollars (Minimum Case): \$12,600,300.00																			
Project: Administration-Complex		PBS Number: 02																			
Evaluator: M. Stevens		Date: 2-26-01		WBS Number: 1.1.B.B																	
CAM: M. Stevens		Date: 2-26-01		Control Account Number: BADM																	
Project Task		Risk and/or Opportunity		Potential Impact		Internal Or External Driver		Impact Cost \$ (Maximum Case)		Risk Impact Level		Risk Probability %		Risk Probability Level		Probable Cost \$ (Likeliest Case)		Risk Critical Value		Risk Handling Strategy	
RT-002-047	Utility Isolation	Delay	Escalation-	Internal	\$10,000.00	1	25	2	\$2,600.00	1	Accept										
	Utility Redistribution	Delay	Escalation-	Internal	\$30,000.00	1	26	2	\$7,600.00	1	Accept										
	Demolition	Delay	Escalation	Internal	\$120,000.00	2	26	2	\$30,000.00	2	Accept										
				Total:				\$160,000.00		Total:						\$40,000.00					

Risk/Opportunity Identification and Analysis Form

R1: 002 041		R1: 002 041		Total Baseline Dollars (Minimum Case): \$782,457.00																	
Project: Demolition-Electrical Substation		PBS Number-02																			
Evaluator: M. Stevens		Date: 2-26-01																			
C/AM: M. Stevens		Date: 2-26-01																			
Project Task		Risk and/or Opportunity		Potential Impact		Internal Or External Driver		Impact Cost-\$ (Maximum Case)		Risk Impact Level		Risk Probability %		Risk Probability Level		Probable Cost-\$ (Likeliest Case)		Risk Critical Value		Risk Handling Strategy	
Utility Isolation		Delay		Escalation-		Internal		\$50,000.00		1		25		2		\$12,500.00		1		Accept	
Utility Redistribution		Delay		Escalation-		Internal		\$100,000.00		2		25		2		\$25,000.00		1		Accept	
Demolition		Delay		Escalation		Internal		\$20,000.00		1		25		2		\$5,000.00		1		Accept	
						Total		\$170,000.00						Total		\$42,500.00					

Risk/Opportunity Identification and Analysis Form

RT-02-047	Project: Demolition-General Sump Evaluator: M. Stevens Date: 2-26-01 CAM: M. Stevens Date: 2-26-01		PBS Number: 02 WBS Number: 1.1-B.D Control Account Number: BGSC		RT-02-047 Total Baseline Dollars (Minimum Case): \$3,566,696.00				
RT-02-047	Risk and/or Opportunity Potential Impact Internal Or External Driver	Escalation- Escalation- Escalation-	Impact Cost-\$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost-\$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
RT-02-047	Utility Isolation	Delay	\$10,000.00	1	25	2	\$2,500.00	1	Accept
RT-02-047	Utility Redistribution	Delay	\$0.00	1	25	2	\$0.00	1	
RT-02-047	Demolition	Delay	\$30,000.00	1	25	2	\$7,500.00	1	Accept
Total:			\$40,000.00			Total:	\$10,000.00		

Risk/Opportunity Identification and Analysis Form

R1: R02 047		PBS Number- Q2	Total-Baseline Dollars -Minimum Case)- \$5,964,999.00	R1: P02, 047				
Evaluator:- M. Stevens	Date:- 2-26-01	WBS Number:- T.I.B.E						
CAMI:- M. Stevens	Date:- 2-26-01	Control Account Number:- BLAB						
Project Task	Risk-and/or Opportunity	Potential Impact						
		Internal Or External Driver	Impact Cost-\$ (Maximum Case)	Risk Impact Level				
				Risk Probability %				
				Risk Probability Level				
				Risk Critical Value				
				Probable Cost-\$ (Likeliest Case)				
				Risk Handling Strategy				
R1: R02: 047	Utility Isolation-	-Escalation-	\$20,000.00	1	2B	\$5,000.00	1	A-accept
	Utility Redistribution-	-Escalation-	\$0.00	1	2B	\$0.00	1	
	Demolition-	-Escalation-	\$250,000.00	2	2B	\$62,500.00	2	A-accept
		-Total-	\$270,000.00				-Total-	\$67,500.00

R1- F02- 047	Project Evaluation GAM Project	R1- F02- 047
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R1- F02- 047	Project Evaluation GAM Project	R1- F02- 047
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Risk/Opportunity Identification and Analysis Form

RI: F02: 047	at: Demolition-Miscellaneous	PBS-Number: 02	RI: F02: 047	Baseline-Dollars (Minimum Case): \$11,602,986.00
Evaluator: M. Stevens	Date: 2-26-01	WBS-Number: 1-1-B-U		
CAMI: M. Stevens	Date: 2-26-01	Control-Account Number: BMSC		
Project-Task	Risk-and/or Opportunity	Potential Impact	Risk Impact Level	Risk Probability %
RI: F02: 047		Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Probability Level
Utility Isolation	Delay	Escalation-	\$80,000.00	1
Utility Redistribution	Delay	Escalation-	\$120,000.00	1
Demolition	Delay	Escalation	\$160,000.00	2
		Total:	\$360,000.00	Total:
				\$90,000.00

Risk/Opportunity Identification and Analysis Form

RT: 047	RT: 047	Total Baseline Dollars (Minimum Case): \$8,265,081.00									
Project: Pilot Plant		PBS Number: 02									
Evaluator: M. Stevens		WBS Number: 1-1-B-P									
CAM: M. Stevens		Control Account Number: BPPC									
Project Task		Potential Impact	Internal Or External Driver	Impact Cost-\$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost-\$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy	
RT: 047	RT: 047	Utility Isolation	Internal	\$10,000.00	1	25	2	\$2,500.00	1	Accept	
		Utility Redistribution	Internal	\$0.00	1	25	2	\$0.00	1		
		Demolition	Internal	\$120,000.00	2	25	2	\$30,000.00	2	Accept	
		Total:		\$130,000.00			Total:	\$32,500.00			

Risk/Opportunity Identification and Analysis Form

AT-02-047	AT-02-047	Total Baseline Dollars (Minimum Case) - \$14,694,691.00									
Project: Plant 2		PBS Number: Q2									
Evaluator: M. Stevens		WBS Number: 1.1.B.H									
CAM: M. Stevens		Control Account Number: SPL2									
Project Task		Risk and/or Opportunity									
AT-02-047		Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy	
	Utility Isolation	Escalation-	Internal	\$0.00	4	25	2	\$0.00	1		
	Utility Redistribution	Escalation-	Internal	\$0.00	4	25	2	\$0.00	1		
	Demolition	Escalation	Internal	\$600,000.00	2	25	2	\$150,000.00	2	Accept	
		Total:		\$600,000.00			Total:	\$150,000.00			

Risk/Opportunity Identification and Analysis Form

REL: 002, 047	REL: 002, 047	Total Baseline Dollars (Minimum Case): \$4,965,486.00									
Project: Plant-3		PBS Number: 02									
Evaluator: M. Stevens		Date: 2-26-01									
CAM: M. Stevens		Date: 2-28-01									
Project Task		Risk and/or Opportunity									
REL: 002, 047		Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy	
	Utility Isolation	Escalation-	Internal	\$10,000.00		1	25	2	\$2,500.00	1 Accept	
	Utility Redistribution	Escalation-	Internal	\$0.00		1	25	2	\$0.00	1 Accept	
	Demolition	Escalation	Internal	\$90,000.00		1	25	2	\$22,500.00	1 Accept	
		Total:		\$100,000.00				Total:	\$25,000.00		

Risk/Opportunity Identification and Analysis Form

RT-002-047	RT-002-047	Total Baseline Dollars (Minimum Case): \$6,001,748.00									
Project: Plant 6		PBS Number: 02									
Evaluator: Mr. Stevens		WBS Number: 1.1.B.M									
C/M: Mr. Stevens		Control Account Number: BPL6									
Date: 2-26-01											
Date: 2-26-01											
Project Task		Risk and/or Opportunity									
RT-002-047	RT-002-047	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy	
Utility Isolation	Delay	Escalation-	Internal	\$0.00	4	25	2	\$0.00	1		
Utility Redistribution	Delay	Escalation-	Internal	\$0.00	1	25	2	\$0.00	1		
Demolition	Delay	Escalation	Internal	\$0.00	1	25	2	\$0.00	1		
		Total:		\$0.00			Total:				

Risk/Opportunity Identification and Analysis Form

RI-002-047	pt-Plant-8	PBS Number: 02	Baseline Dollars (Minimum Case): \$6,861,838.00									
RI-002-047	Evaluator: M. Stevens	Date: 2-28-01	WBS Number: 1-1-B-N									
RI-002-047	CAM: M. Stevens	Date: 2-28-01	Control Account Number: BPL8									
RI-002-047	Project Task	Risk-and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost-\$ (Maximum Case)	Risk-Impact Level	Risk Probability %	Risk Probability Level	Probable Cost-\$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy	
RI-002-047	Utility Isolation	Delay	Escalation-	Internal	\$0.00	\$0.00	1	25	2	\$0.00	1	
RI-002-047	Utility Redistribution	Delay	Escalation-	Internal	\$0.00	\$0.00	1	26	2	\$0.00	1	
RI-002-047	Demolition	Delay	Escalation	Internal	\$240,000.00	\$240,000.00	2	25	2	\$60,000.00	2 Accept	
RI-002-047				Total:	\$240,000.00			Total:		\$60,000.00		

Risk/Opportunity Identification and Analysis Form

R1: 047	R2: 047	Total Baseline Dollars (Minimum Case): \$3,085,150.00																			
Project: Demolition/Plant 1, Phase II		PBS Number: 02																			
Evaluator: M. Stevens		WBS Number: 1.1.B.G																			
CAM: M. Stevens		Date: 2-28-01																			
Date: 2-28-01		Control Account Number: BPL1																			
Project Task		Potential Impact																			
Risk and/or Opportunity		Internal Or External Driver																			
R1: 047	R2: 047	Impact Cost - \$ (Maximum Case)		Risk Impact Level		Risk Probability %		Risk Probability Level		Probable Cost - \$ (Likeliest Case)		Risk Critical Value		Risk Handling Strategy							
Utility Isolation		Delay		Escalation		Internal		Internal		\$40,000.00		1		2		\$2,500.00		1		Accept	
Utility Redistribution		Delay		Escalation		Internal		Internal		\$0.00		1		2		\$0.00		1		Accept	
Demolition		Delay		Escalation		Internal		Internal		\$60,000.00		2		2		\$15,000.00		2		Accept	
						Total:		Total:		\$70,000.00				Total:		\$17,500.00					

Risk/Opportunity Identification and Analysis Form

RT-02-047	3H-Oneite-Debris-Disposal	PBS Number: 02	Baseline-Dollars-(Minimum-Case): \$2,464,989.00									
Evaluator: M. Stevens	Date: 5/1/2001	WBS-Number-1.1.1-B-\$										
CAM: M. Stevens	Date: 5/1/2001	Control-Account-Number: BDNW										
Project-Task	Risk-and/or-Opportunity	Potential-Impact	Internal Or External Driver	Impact Cost-\$ (Maximum Case)	Risk-Impact Level	Risk-Probability %	Risk-Probability Level	Probable Cost-\$ (Likeliest Case)	Risk-Critical Value	Risk-Handling Strategy		
RT-02-047	Oneite-Debris-Thorium-contaminated-debris	Have-to-stage-in-ROBs	Internal	\$350,000.00		2	10	2	\$95,000.00	2	Accept	
	Oneite-Debris-Cat 1-Storage	Have-to-stage-in-ROBs	Internal	\$490,000.00		2	25	2	\$122,500.00	2	Accept	
			Totals:	\$840,000.00					\$157,500.00			

Risk/Opportunity Identification and Analysis Form

RI-02-017	PI: D&D Project Management	PBS Number-02	RI-02-017	Baseline Dollars (Minimum Case): \$2,381,676.00							
	Evaluator: M. Stevens	6/1/01	WBS Number: 1.1.B-A								
	CAM: M. Stevens	6/1/01	Control Account Number: BFDP								
RI-02-017	Project-Task	Risk-and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost-\$ (Maximum Case)	Risk-Impact Level	Risk Probability %	Risk Probability Level	Probable Cost-\$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
RI-02-017	None Identified										Accept

Risk/Opportunity Identification and Analysis Form

		R1: F02: O47	PBS Number: 02	Baseline Dollars (Minimum Case)- \$1,126,082.00							
Evaluator: M- Stevens	5/1/01	WBS Number: 1-B-I									
CAMI- M- Stevens	5/1/01	Control Account Number- BWPR									
Project Task	Risk-and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost-\$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy	
Utility Isolation	Delay	Escalation-	Internal	\$40,000.00	1	1	25	2	\$2,500.00	1 Accept	
Demolition	Delay	Escalation	Internal	\$60,000.00	1	1	25	2	\$12,500.00	1 Accept	
				Total:			Total:		\$15,000.00		

Risk/Opportunity Identification and Analysis Form

Project: OSDF Engineering		PBS Number: 03		Total Baseline Dollars (Minimum Case): \$9,994,710																	
Evaluator: Wolinsky		WBS Number 1.1.C.B																			
CAM: J.D. Chlou		Date: 05/01/01																			
Project Task		Risk and/or Opportunity		Potential Impact		Internal Or External Driver		Impact Cost \$ (Maximum Case)		Risk Level		Risk Probability %		Risk Probability Level		Probable Cost \$ (Likeliest Case)		Risk Critical Value		Risk Handling Strategy	
Charge No. CAEN1 - OSDF Design	Procurement of OSDF CFC Package Engineering Services Subcontractor	Extension of current GeoSyntec Contract incorporating this additional work is more expensive than anticipated	Additional engineering manhours	Internal	\$300,000.00	2	50	3	\$150,000.00								2	Accept			
Preparation of OSDF CFC Package for cell liners and final cover systems	Unidentified AE scope adds results in doubling the projected cost	Twice the cost due to doubling the engineering manhours	Internal	\$800,000.00	2	50	3	\$400,000.00									2	Accept			
Preparation of OSDF Access Control Facility CFC Package	Land use committee doesn't approve currently proposed location requiring redesign	Redo the conceptual and preliminary designs using in-house resources	Internal	\$10,000.00	1	20	2	\$2,000.00									1	Accept			
Preparation of OSDF Construction Water Well CFC Package	Qualified matrixed personnel not available when needed	Delay of installation of water well by one month	Internal	\$5,000.00	1	40	3	\$2,000.00									2	Accept			
Charge No. CAEN5 - OSDF CFC Services	Provide CFC Services - General	Period of performance must be extended due to a 12-month delay in site critical path work affecting OSDF	Twelve-month OSDF schedule extension with attendant additional costs	Internal	\$300,000.00	2	50	3	\$150,000.00								2	Accept			
Provide CFC Services - General	Adequate number of qualified technicians not available on-site when needed over a one-month period	Increase overtime for remaining staff to provide necessary tests until additional trained staff is available	Internal	\$20,000.00	1	40	3	\$8,000.00									1	Accept			
Charge No. CAEN6 - OSDF Title III Services	Provide Title III Services for Borrow Area Development	Not enough clay for liner and cap from brown till layer	Design Test Pad and Grading Plan and oversee construction/testing work by others	Internal	\$500,000.00	2	40	3	\$200,000.00								2	Accept			
Provide Title III Services for OSDF Liners and Final Covers	Cell #7 material volumes are greater than anticipated requiring a larger Final Cover	Acquire an A/E and provide design of a larger final cover system	Internal	\$300,000.00	2	50	4	\$150,000.00									3	Accept			

Risk/Opportunity Identification and Analysis Form

Project: OSDF Engineering		PBS Number: 03		Total Baseline Dollars (Minimum Case):					\$9,994,710												
Evaluator: Wolinsky		WBS Number 1.1.C.B																			
CAM: J.D. Chlou		Date: 05/01/01		Control Account Number: CAEN																	
Project Task		Risk and/or Opportunity		Potential Impact		Internal Or External Driver		Impact Cost \$ (Maximum Case)		Risk Level		Risk Probability %		Risk Probability Level		Probable Cost \$ (Likeliest Case)		Risk Critical Value		Risk Handling Strategy	
Provide Title III Services for OSDF Liners and Final Covers	Failure of geosynthetic material in final cover system	Acquire an A/E and provide design topsoil/vegetative layer & rock: remove, stockpile, repair, replace, revegetate	Internal	\$500,000.00	2	15	2	\$75,000.00	2	2	Accept										
Provide Title III Services for OSDF Liners and Final Covers	Period of performance must be extended due to a 12-month delay in site critical path work affecting OSDF	Twelve-month OSDF schedule extension with attendant additional costs	Internal	\$300,000.00	2	50	3	\$150,000.00	3	2	Accept										
Charge No. CAEN7 OSDF Monitoring	NONE																				
Total:				\$3,035,000.00				\$1,287,000.00													

Charge No. CAEN6											
Provide Title III Services for OSDF Liners and Final Covers	Regulators require a Permanent Cap be installed for an extended shutdown of one Cell	Acquire and A/E and provide design to Build/Remove/Reinstall Final Cover	External	\$50,000.00	1	10	2	\$5,000.00	2	1	Accept

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: CAEN Total

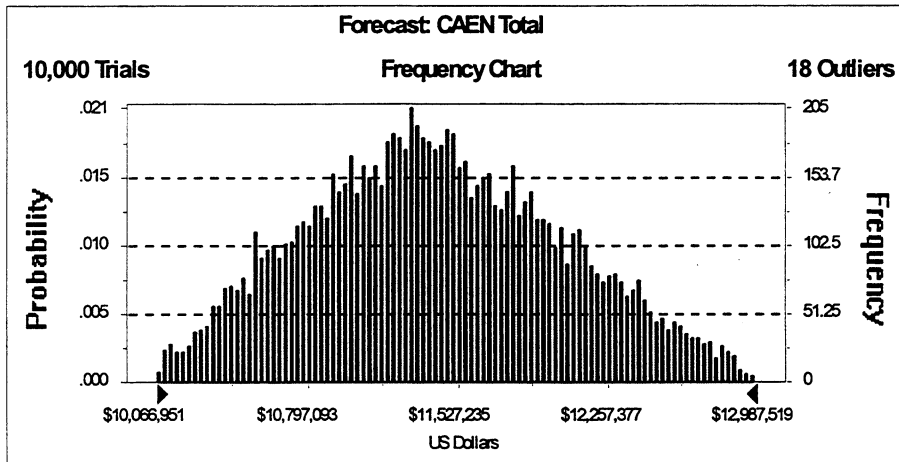
Cell: D26

Summary:

Display Range is from \$10,066,951 to \$12,987,519 US Dollars
 Entire Range is from \$10,001,223 to \$13,003,747 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$6,180

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$11,426,348
Median	\$11,399,543
Mode	---
Standard Deviation	\$617,968
Variance	4E + 11
Skewness	0.14
Kurtosis	2.41
Coeff. of Variability	0.05
Range Minimum	\$10,001,223
Range Maximum	\$13,003,747
Range Width	\$3,002,524
Mean Std. Error	\$6,179.68



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: CAEN Total (cont'd)

Cell: D26

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$10,001,223
5%	\$10,436,007
10%	\$10,607,724
15%	\$10,751,421
20%	\$10,868,078
25%	\$10,972,426
30%	\$11,069,321
35%	\$11,160,468
40%	\$11,241,070
45%	\$11,320,320
50%	\$11,399,543
55%	\$11,479,890
60%	\$11,563,112
65%	\$11,660,059
70%	\$11,763,361
75%	\$11,866,174
80%	\$11,981,208
85%	\$12,116,546
90%	\$12,280,510
95%	\$12,490,167
100%	\$13,003,747

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: OSDF Infrastructure Construction		PBS Number: 03		Total Baseline Dollars (Minimum Case):		\$3,130,059				
Evaluator: Wolinsky		WBS Number: 1.1.C.C								
CAM: J.D. Chiou		Date: 05/01/01		Control Account Number: CBSP						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Charge No. CBSP1 OSDF Infrastructure Construction										
Relocate Access Control Facility including building new equipment wash	Land use committee doesn't approve currently proposed facility location	Additional cost due to less than optimal siting	Internal	\$10,000.00		1	20	2	\$2,000.00	1 Accept
Relocate Access Control Facility including building new equipment wash	Unexpected discovery of cultural resources requires sampling and documentation	Schedule delay of 2 months	Internal	\$100,000.00		2	10	2	\$10,000.00	2 Accept
Relocate Access Control Facility including building new equipment wash	Unforeseen subsurface conditions requires soil removal and replacement	Schedule delay of 2 weeks plus replacement of soil in excavated area	Internal	\$25,000.00		1	30	2	\$7,500.00	1 Accept
Relocate Air Monitors including power supply	Power supply not available as planned	Extra cost to run permanent power an extra 1/4 mile	Internal	\$100,000.00		2	25	2	\$25,000.00	2 Accept
Expand OMTA area	Unexpected discovery of cultural resources requires sampling and documentation	Schedule delay of 2 months	Internal	\$100,000.00		2	10	2	\$10,000.00	2 Accept
Expand OMTA area	Unforeseen subsurface conditions requires soil removal and replacement	Schedule delay of 2 weeks plus replacement of soil in excavated area	Internal	\$25,000.00		1	30	2	\$7,500.00	1 Accept
Construct water well	Adequate supply of water not available at proposed location	Redrill well in new location results in additional cost and 1 month schedule delay	Internal	\$100,000.00		2	30	2	\$30,000.00	2 Accept
Remove underground/above ground interim leachate line	Unforeseen subsurface conditions requires soil removal and replacement	Schedule delay of 2 weeks plus replacement of soil in excavated area	Internal	\$25,000.00		1	30	2	\$7,500.00	1 Accept
Construction of Miscellaneous Facilities - General	Minor construction schedule extension due to various issues, e.g., inclement weather, equipment deliveries, rework	One-month schedule extension	Internal	\$100,000.00		2	30	2	\$30,000.00	2 Accept
Total:				\$585,000.00			Total:	\$129,500.00		

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: CBSP Total

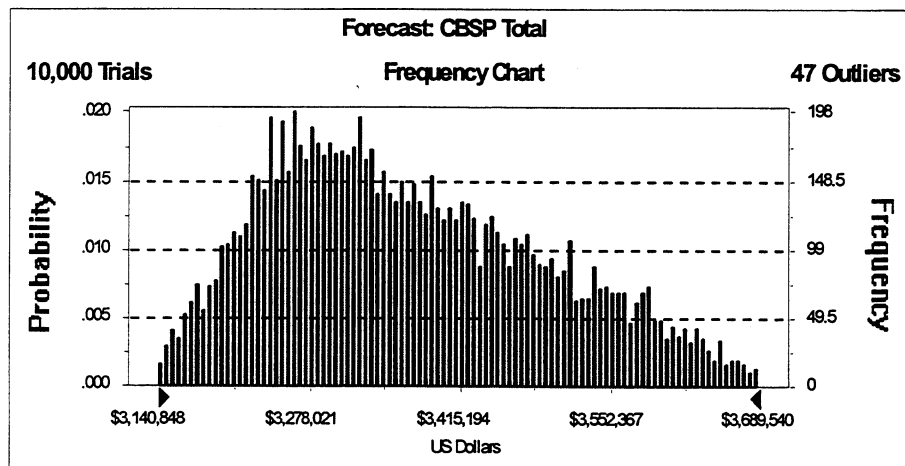
Cell: D28

Summary:

Display Range is from \$3,140,848 to \$3,689,540 US Dollars
 Entire Range is from \$3,133,771 to \$3,712,398 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$1,254

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$3,369,673
Median	\$3,351,382
Mode	---
Standard Deviation	\$125,415
Variance	#####
Skewness	0.44
Kurtosis	2.38
Coeff. of Variability	0.04
Range Minimum	\$3,133,771
Range Maximum	\$3,712,398
Range Width	\$578,628
Mean Std. Error	\$1,254.15



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: CBSP Total (cont'd)

Cell: D28

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$3,133,771
5%	\$3,192,614
10%	\$3,218,804
15%	\$3,238,677
20%	\$3,254,174
25%	\$3,269,384
30%	\$3,285,158
35%	\$3,301,315
40%	\$3,317,294
45%	\$3,332,870
50%	\$3,351,382
55%	\$3,370,582
60%	\$3,390,614
65%	\$3,411,278
70%	\$3,433,717
75%	\$3,458,701
80%	\$3,485,959
85%	\$3,516,843
90%	\$3,554,236
95%	\$3,598,481
100%	\$3,712,398

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: OSDF Construction		PBS Number: 03		Total Baseline Dollars (Minimum Case):		\$103,940,982	
Evaluator: Wolinsky		WBS Number: 1.1.C.D					
CAM: J.D. Chiou		Date: 05/01/01					
Control Account Number: CCPL							
Project Task		Risk and/or Opportunity		Potential Impact		Internal Or External Driver	
Charge No. CCPL1 OSDF Construction Matched Labor	None						
Charge No. CCPL2 OSDF Borrow Area Development							
Borrow Area Development	Not enough brown clay for liner and cap on east side of south FEMP access road	Change in liner processing to also use gray till requires a test pad program	Internal	3	20	2	\$200,000.00
Borrow Area Development	Inclement weather or other unplanned delay results in lower than expected work progress on clay screening for Cell 4 liner	Additional month to screen clay material for liner or cap using site support subcontractor	Internal	2	50	3	\$125,000.00
Charge No. CCPL3 OSDF Placement of Material in Cell	Increase in CAT 2-5 volume	Expansion of OMTA	Internal	2	30	3	\$21,000.00
Placement of Material in Cell	Contaminated runoff crosses over into certified areas	Re-excavation of contaminated soils	Internal	1	10	2	\$2,000.00
Placement of Material in Cell	Thorium-contamination of Cell	Establishing Thorium area - PPE increase - decon-of equipment	Internal	1	80	6	\$40,000.00
Placement of Material in Cell	Above WAC material found in Cell	Remove above WAC material from Cell requires a 1 month schedule extension	Internal	2	20	2	\$200,000.00
Placement of Material in Cell	Placement of material in cell requires more time due to a 12-month delay in site critical path work affecting OSDF	Twelve-month schedule extension with attendant additional costs	Internal	5	50	3	\$6,000,000.00
Placement of Material in Cell	Extensive contamination of subcontractor-owned equipment	Purchase of subcontractor-owned equipment	Internal	2	25	2	\$125,000.00
Charge No. CCPL4 OSDF Construction of Cell 1 Cap	Construction of Cell 1 cap takes more time than projected by subcontractor	Three month schedule extension	Internal	2	40	3	\$140,000.00

Risk/Opportunity Identification and Analysis Form

Project: OSDF Construction		PBS Number: 03		Total Baseline Dollars (Minimum Case): \$103,940,982															
Evaluator: Wolinsky		WBS Number: 1.1.C.D																	
CAM: J.D. Chou		Date: 05/01/01		Control Account Number: CCPL															
Risk and/or Opportunity		Potential Impact		Internal Or External Driver		Impact Cost \$ (Maximum Case)		Risk Impact Level		Risk Probability %		Risk Probability Level		Probable Cost \$ (Likeliest Case)		Risk Critical Value		Risk Handling Strategy	
Charge No. CCPLA, OSDF Cell #2 Cap		Increase in petroleum costs		Internal		\$100,000.00		2		30		2		\$30,000.00		2		Accept	
Geosynthetic material procurement		50% increase in cost of geosynthetic material		Internal		\$4,000,000.00		3		15		2		\$600,000.00		3		Accept	
Geosynthetic material failure after completion of cap		Failure of geosynthetic material (not seams provided by subcontractor)		Internal		\$350,000.00		2		20		2		\$70,000.00		2		Accept	
Construction of cap - general		Minor construction schedule extension due to various issues, e.g., inclement weather, equipment deliveries, rework		Internal		\$50,000.00		2		25		2		\$12,500.00		2		Accept	
Topsoil Organics		No vegetative growth		Internal															
Charge No. CCPLB, OSDF Cell #3 Cap		Increase in petroleum costs		Internal		\$100,000.00		2		40		3		\$40,000.00		3		Accept	
Geosynthetic material procurement		Increased cost of geosynthetic material		Internal		\$4,000,000.00		3		15		2		\$600,000.00		3		Accept	
Geosynthetic material failure after completion of cap		Failure of geosynthetic material (not seams provided by subcontractor)		Internal		\$350,000.00		2		20		2		\$70,000.00		2		Accept	
Construction of cap - general		Minor construction schedule extension due to various issues, e.g., inclement weather, equipment deliveries, rework		Internal		\$50,000.00		2		25		2		\$12,500.00		2		Accept	
Topsoil Organics		No vegetative growth		Internal															
Charge No. CCPLC, OSDF Cell #4 Liner		Unforeseen subsurface conditions requires soil removal and replacement		Internal		\$50,000.00		1		30		2		\$15,000.00		1		Accept	
Site Preparation - Subgrade		Schedule delay of 2 weeks plus replacement of soil in excavated area		Internal		\$400,000.00		2		10		2		\$40,000.00		2		Accept	
Site Preparation - Subgrade		Unexpected discovery of cultural resources requires sampling and documentation		Internal				2		25		2		\$62,500.00		2		Accept	
Primary & Secondary Geosynthetic Liners		Increased cost of geosynthetic material		Internal															

Risk/Opportunity Identification and Analysis Form

Project: OSDF Construction		PBS Number: 03		Total Baseline Dollars (Minimum Case):		\$103,940,982		
Evaluator: Wolinsky		WBS Number: 1.1.C.D		Control Account Number: CCPL				
CAM: J.D. Chlou		Date: 05/01/01		Risk and/or Opportunity				
Project Task		Potential Impact		Internal Or External Driver				
		Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Primary & Secondary Geosynthetic Liners	Failure of geosynthetic material (not seams provided by subcontractor)	\$5,000,000.00	3	15	2	\$750,000.00	3	Accept
Cell Area Leachate Systems	Video inspection yields problems requiring resolution	\$100,000.00	2	20	2	\$20,000.00	2	Accept
Construction of liner - general	Minor construction schedule extension due to various issues, e.g., inclement weather, equipment deliveries, rework	\$350,000.00	2	20	2	\$70,000.00	2	Accept
Charge No. CCPLD-OSDF Cell #4 Cap								
Geosynthetic material procurement	Increase in petroleum costs	\$100,000.00	2	50	3	\$50,000.00	3	Accept
Geosynthetic material failure after completion of cap	Failure of geosynthetic material (not seams provided by subcontractor)	\$4,000,000.00	3	15	2	\$600,000.00	3	Accept
Construction of cap - general	Minor construction schedule extension due to various issues, e.g., inclement weather, equipment deliveries, rework	\$350,000.00	2	20	2	\$70,000.00	2	Accept
Topsoil Organics	No vegetative growth	\$50,000.00	2	25	2	\$12,500.00	2	Accept
Charge No. CCPLD-OSDF Cell #5 Liner								
Site Preparation - Subgrade	Unforeseen subsurface conditions requires soil removal and replacement	\$50,000.00	1	30	2	\$15,000.00	1	Accept
Site Preparation - Subgrade	Unexpected discovery of cultural resources requires sampling and documentation	\$400,000.00	2	20	2	\$80,000.00	2	Accept
Primary & Secondary Geosynthetic Liners	Increase in petroleum costs	\$250,000.00	2	30	3	\$75,000.00	2	Accept
Primary & Secondary Geosynthetic Liners	Failure of geosynthetic material (not seams provided by subcontractor)	\$5,000,000.00	3	15	2	\$750,000.00	3	Accept

Risk/Opportunity Identification and Analysis Form

Project: OSDF Construction		PBS Number: 03		Total Baseline Dollars (Minimum Case): \$103,940,982																	
Evaluator: Wolinsky		WBS Number: 1.1.C.D																			
CAM: J.D. Chiu		Date: 05/01/01																			
Project Task		Risk and/or Opportunity		Potential Impact		Internal Or External Driver		Impact Cost \$ (Maximum Case)		Risk Impact Level		Risk Probability %		Risk Probability Level		Probable Cost \$ (Likeliest Case)		Risk Critical Value		Risk Handling Strategy	
Construction of liner - general		Minor construction schedule extension due to various issues, e.g., inclement weather, equipment deliveries, rework		Three-month schedule extension		Internal		\$350,000.00		2		20		2		\$70,000.00				2 Accept	
Charge No. CCPLH, OSDF Cell #6 Cap		Increase in petroleum costs		Increased cost of geosynthetic material		Internal		\$100,000.00		2		75		5		\$75,000.00				3 Accept	
Geosynthetic material procurement		Failure of geosynthetic material (not seams provided by subcontractor)		Topsoil, vegetative layer & rock: remove, stockpile, repair, replace, revegetate		Internal		\$4,000,000.00		3		15		2		\$600,000.00				3 Accept	
Construction of cap - general		Minor construction schedule extension due to various issues, e.g., inclement weather, equipment deliveries, rework		Three-month schedule extension		Internal		\$350,000.00		2		20		2		\$70,000.00				2 Accept	
Topsoil Organics		No vegetative growth		Apply organic treatment to topsoil		Internal		\$50,000.00		2		25		2		\$12,500.00				2 Accept	
Charge No. CCPLJ, OSDF Cell #7 Liner Construction - General		Cell #7 material volumes are greater than anticipated requiring a larger Liner		Increase liner size by 50%		Internal		\$1,000,000.00		3		50		4		\$500,000.00				5 Accept	
Site Preparation - Subgrade		Unforeseen subsurface conditions requires soil removal and replacement		Schedule delay of 2 weeks plus replacement of soil in excavated area		Internal		\$50,000.00		1		30		2		\$15,000.00				1 Accept	
Site Preparation - Subgrade		Unexpected discovery of cultural resources requires sampling and documentation		Schedule delay of 2 months		Internal		\$400,000.00		2		20		2		\$80,000.00				2 Accept	
Primary & Secondary Geosynthetic Liners		Increase in petroleum costs		Increased cost of geosynthetic material		Internal		\$250,000.00		2		75		5		\$187,500.00				3 Accept	
Primary & Secondary Geosynthetic Liners		Failure of geosynthetic material (not seams provided by subcontractor)		Topsoil, vegetative layer & rock: remove, stockpile, repair, replace, revegetate		Internal		\$5,000,000.00		3		15		2		\$750,000.00				3 Accept	
Cell Area Leachate Systems		Video Inspection yields problems requiring resolution		Schedule delay of 8 weeks to repair		Internal		\$100,000.00		2		20		2		\$20,000.00				2 Accept	

Risk/Opportunity Identification and Analysis Form

Project: OSDF Construction		PBS Number: 03		Total Baseline Dollars (Minimum Case): \$103,940,982															
Evaluator: Wolinsky		WBS Number: 1.1.C.D																	
Date: 05/01/01		Control Account Number: CCPL																	
Risk and/or Opportunity		Potential Impact		Internal Or External Driver		Impact Cost \$ (Maximum Case)		Risk Level		Risk Probability %		Risk Probability Level		Probable Cost \$ (Likeliest Case)		Risk Critical Value		Risk Handling Strategy	
Construction of liner - general	Minor construction schedule extension due to various issues, e.g., inclement weather, equipment deliveries, rework	Three-month schedule extension	Internal		\$350,000.00	2	20	2					2	\$70,000.00			2	Accept	
Charge No. CCPLK, OSDF Cell #7 Cap	Increase in petroleum costs	Increased cost of geosynthetic material	Internal		\$100,000.00	2	75	5						\$75,000.00			3	Accept	
Geosynthetic material procurement	Failure of geosynthetic material (not seams provided by subcontractor)	Topsoil, vegetative layer & rock: remove, stockpile, repair, replace, revegetate	Internal		\$4,000,000.00	3	15	2						\$600,000.00			3	Accept	
Construction of cap - general	Minor construction schedule extension due to various issues, e.g., inclement weather, equipment deliveries, rework	Three-month schedule extension	Internal		\$350,000.00	2	20	2						\$70,000.00			2	Accept	
Topsoil Organics	Inadequate vegetative growth	Apply organic treatment to topsoil	Internal		\$50,000.00	2	25	2						\$12,500.00			2	Accept	
Cell #7 cap construction	Cell #7 material volumes are greater than anticipated requiring a larger Cap	Increase cap size by 50%	Internal		\$1,000,000.00	3	50	4						\$500,000.00			5	Accept	
				Total:	\$68,790,000.00				Total:	\$16,378,000.00									
Charge No. CCPL3	Regulatory disapproval of DOE requested MPP change for a 2-foot intervening layer from the current 4 feet	One additional year schedule extension	External		\$12,000,000.00	5	20	2						\$2,400,000.00			8		
Construction of additional cap	Build and remove a single-cell permanent cap for a long-term OSDF shutdown	Two-year schedule extension	External		\$8,000,000.00	4	10	2						\$800,000.00			5		
Charge No. CCPLB	Build and remove a single-cell permanent cap for a long-term OSDF shutdown	Two-year schedule extension	External		\$8,000,000.00	4	10	2						\$800,000.00			5		

Note: CCPLD, CCPLF, CCPLH and CCPLI deleted from table prior to receipt of comment.

RI - D623

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: CCPL Total

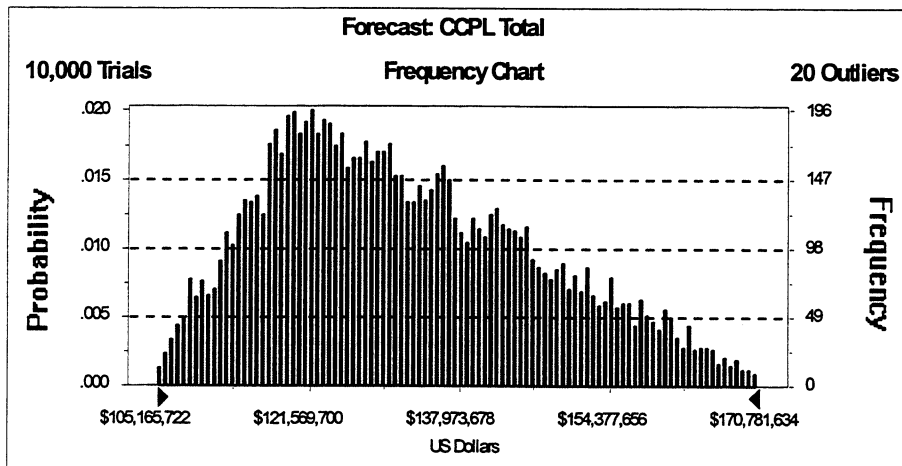
Cell: D32

Summary:

Display Range is from \$105,165,722 to \$170,781,634 US Dollars
Entire Range is from \$104,355,098 to \$171,930,738 US Dollars
After 10,000 Trials, the Std. Error of the Mean is \$146,105

Statistics:

	Value
Trials	10000
Mean	\$132,238,989
Median	\$130,117,798
Mode	---
Standard Deviation	\$14,610,505
Variance	2E + 14
Skewness	0.46
Kurtosis	2.44
Coeff. of Variability	0.11
Range Minimum	\$104,355,098
Range Maximum	\$171,930,738
Range Width	\$67,575,641
Mean Std. Error	\$146,105.05



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: CCPL Total (cont'd)

Cell: D32

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$104,355,098
5%	\$111,476,269
10%	\$114,604,541
15%	\$117,144,695
20%	\$118,982,807
25%	\$120,718,527
30%	\$122,466,908
35%	\$124,205,519
40%	\$126,150,555
45%	\$128,124,003
50%	\$130,117,798
55%	\$132,200,182
60%	\$134,692,785
65%	\$136,918,419
70%	\$139,646,288
75%	\$142,479,344
80%	\$145,433,981
85%	\$149,211,511
90%	\$153,678,845
95%	\$159,339,577
100%	\$171,930,738

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: OSDF Controls & Management		PBS Number: 03		Total Baseline Dollars (Minimum Case):		\$4,090,596		
Evaluator: Wolinsky		WBS Number: 1.1.C.E						
Date: 05/01/01		Control Account Number: CDG1						
Risk and/or Opportunity		Potential Impact		Internal Or External Driver				
Charge No.	CDG11 - OSDF Controls & Management	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Protection of stockpiled geosynthetic materials	Unexpected weather events such as tornadoes, heavy winds, lighting, etc. cause significant damage to stockpiled material	\$500,000.00	2	10	1	\$50,000.00	1	Accept
Winterization of facilities and temporary water system	Extremely cold winter results in excessive repairs to temporary water systems	\$50,000.00	1	20	2	\$10,000.00	1	Accept
Winterization of active cells	Unexpected weather events such as very heavy short duration rainstorms cause excessive erosion of select material receiving caps	\$100,000.00	2	20	2	\$20,000.00	2	Accept
Construction of Miscellaneous Facilities - General	Minor construction schedule extension due to various issues, e.g., inclement weather, equipment deliveries, rework	\$100,000.00	2	30	2	\$30,000.00	2	Accept
Total:		\$650,000.00			Total:	\$80,000.00		
Stormwater management and erosion control - general	Regulators impose new enhanced surface water management and erosion control requirements	\$200,000.00	2	40	3	\$80,000.00	2	
Control and management of temporary covers on active cells	Regulators impose a change to the method of stabilization of active cells during shutdown periods requiring temporary covers rather than pine sap	\$200,000.00	2	20	2	\$40,000.00	2	

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: CDG1 Total

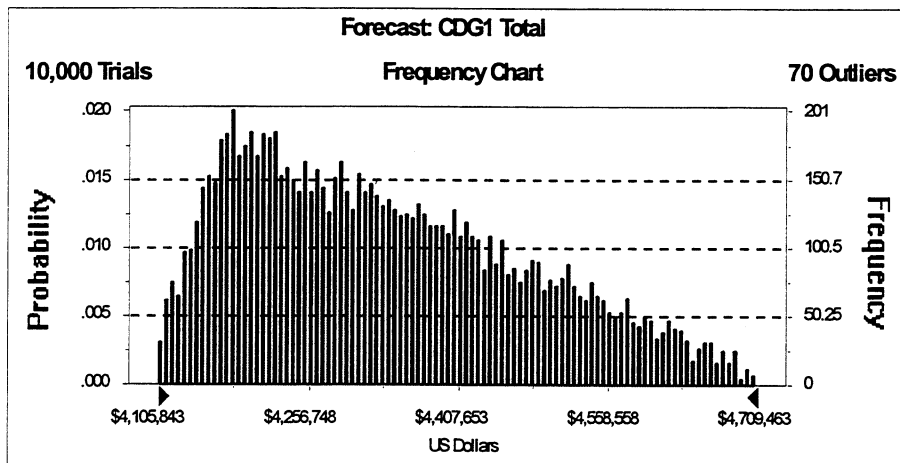
Cell: D34

Summary:

Display Range is from \$4,105,843 to \$4,709,463 US Dollars
 Entire Range is from \$4,094,123 to \$4,736,051 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$1,443

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$4,335,976
Median	\$4,313,865
Mode	---
Standard Deviation	\$144,296
Variance	#####
Skewness	0.52
Kurtosis	2.38
Coeff. of Variability	0.03
Range Minimum	\$4,094,123
Range Maximum	\$4,736,051
Range Width	\$641,929
Mean Std. Error	\$1,442.96



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: CDG1 Total (cont'd)

Cell: D34

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$4,094,123
5%	\$4,143,511
10%	\$4,164,724
15%	\$4,181,291
20%	\$4,198,230
25%	\$4,214,868
30%	\$4,232,492
35%	\$4,252,633
40%	\$4,271,798
45%	\$4,292,712
50%	\$4,313,865
55%	\$4,335,839
60%	\$4,359,272
65%	\$4,383,718
70%	\$4,409,258
75%	\$4,437,768
80%	\$4,471,313
85%	\$4,506,523
90%	\$4,548,334
95%	\$4,604,790
100%	\$4,736,051

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: OSDF Management & Oversight		PBS Number: 03		Total Baseline Dollars (Minimum Case): \$17,765,357						
Evaluator: Wolinsky		WBS Number: 1.1.C.A								
CAM: J.D. Chiou		Date: 05/01/01								
Control Account Number: CECF										
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Charge No. CECF1, OSDF Management	Period of performance must be extended 12 months due to delay in site critical path	Twelve-month OSDF schedule extension with attendant additional labor and overhead costs	Internal	\$400,000.00	2	50		\$200,000.00		2 Accept
Charge No. CECF2, OSDF Engineering Staff	Period of performance must be extended 12 months due to delay in site critical path	Twelve-month OSDF schedule extension with attendant additional labor and overhead costs	Internal	\$400,000.00	2	50		\$200,000.00		2 Accept
Charge No. CECF3, OSDF Construction Management	Period of performance must be extended 12 months due to delay in site critical path	Twelve-month OSDF schedule extension with attendant additional labor and overhead costs	Internal	\$600,000.00	2	50		\$300,000.00		2 Accept
Total:				\$1,400,000.00			Total:	\$700,000.00		

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: CECP Total

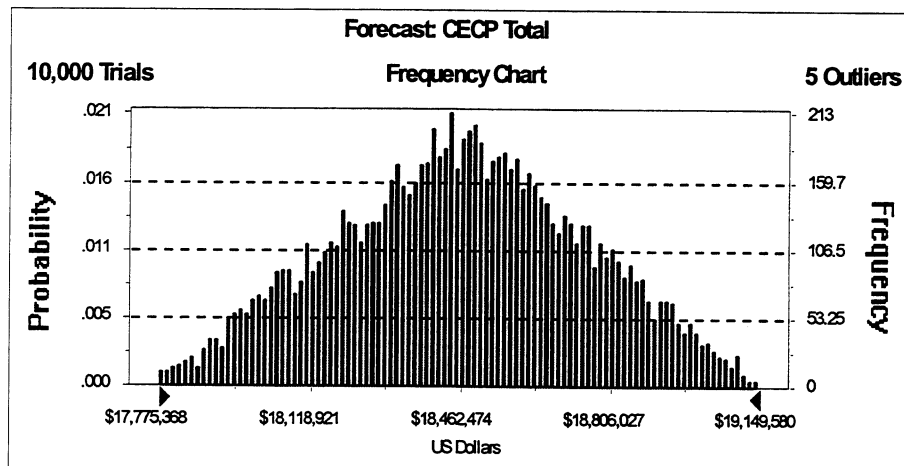
Cell: D24

Summary:

Display Range is from \$17,775,368 to \$19,149,580 US Dollars
 Entire Range is from \$17,769,557 to \$19,159,659 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$2,830

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$18,464,334
Median	\$18,467,483
Mode	---
Standard Deviation	\$282,992
Variance	#####
Skewness	-0.02
Kurtosis	2.42
Coeff. of Variability	0.02
Range Minimum	\$17,769,557
Range Maximum	\$19,159,659
Range Width	\$1,390,102
Mean Std. Error	\$2,829.92



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: CECP Total (cont'd)

Cell: D24

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$17,769,557
5%	\$17,986,972
10%	\$18,074,936
15%	\$18,149,832
20%	\$18,209,301
25%	\$18,262,738
30%	\$18,311,674
35%	\$18,354,427
40%	\$18,394,817
45%	\$18,430,632
50%	\$18,467,483
55%	\$18,501,727
60%	\$18,540,109
65%	\$18,578,244
70%	\$18,620,776
75%	\$18,665,296
80%	\$18,717,676
85%	\$18,777,400
90%	\$18,843,898
95%	\$18,935,129
100%	\$19,159,659

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Enhanced Permanent LTS		PBS Number: 03		Total Baseline Dollars (Minimum Case):					\$1,471,485	
Evaluator: Hughes, Wolinsky		WBS Number: 1.1.C.C								
CAM: J.D. Chiu		Date: 05/01/01								
Control Account Number: CLTS										
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Charge No. CLTS1 Enhanced Permanent LTS Design FY01										
	Design Complete - NO RISK									
Charge No. CLTS2 Enhanced Permanent LTS Construction FY01										
Operation of EPLTS	Previously installed LTS line between the control valve house and the permanent lift station needs to be replaced due to leakage	Increased cost due to labor, rental equipment, and material required for repair and temporary pumping of leachate.	Internal	\$125,000.00		2	50	3	\$62,500.00	2 Accept
Total:				\$125,000.00					\$62,500.00	

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: CLTS Total

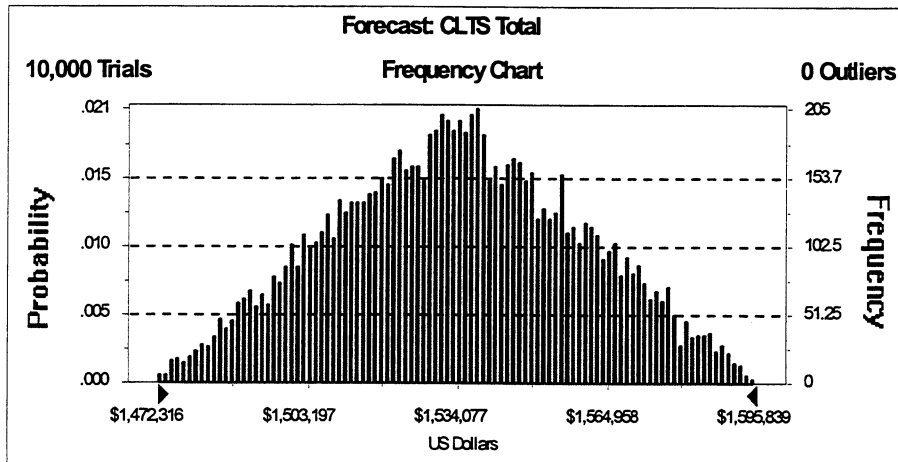
Cell: D30

Summary:

Display Range is from \$1,472,316 to \$1,595,839 US Dollars
 Entire Range is from \$1,472,316 to \$1,595,839 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$254

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$1,534,036
Median	\$1,533,887
Mode	---
Standard Deviation	\$25,425
Variance	\$646,412,743
Skewness	0.01
Kurtosis	2.40
Coeff. of Variability	0.02
Range Minimum	\$1,472,316
Range Maximum	\$1,595,839
Range Width	\$123,524
Mean Std. Error	\$254.25



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: CLTS Total (cont'd)

Cell: D30

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$1,472,316
5%	\$1,491,487
10%	\$1,500,070
15%	\$1,506,044
20%	\$1,511,015
25%	\$1,515,721
30%	\$1,519,868
35%	\$1,523,562
40%	\$1,527,403
45%	\$1,530,750
50%	\$1,533,887
55%	\$1,537,095
60%	\$1,540,273
65%	\$1,544,275
70%	\$1,547,962
75%	\$1,552,352
80%	\$1,557,142
85%	\$1,562,378
90%	\$1,568,614
95%	\$1,576,506
100%	\$1,595,839

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Aquifer Restoration		PBS Number: 04		Total Baseline Dollars (Minimum Case):				\$8,351,880		
Evaluator: Jack Hughes		Date: 3/28/01		WBS Number: 1.1.E.A						
CAM: Jack Hughes		Date: 3/28/01		Control Account Number: EAMG						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Aquifer Restoration Mgt.	Site Closure extends due to other project pushing out the end 1 year	ARP oversight and management must extend for an additional year	Internal	\$500,000	3	50	3	\$250,000	4	Accept
Total:				\$500,000			Total:	\$250,000		

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: EAMG Total

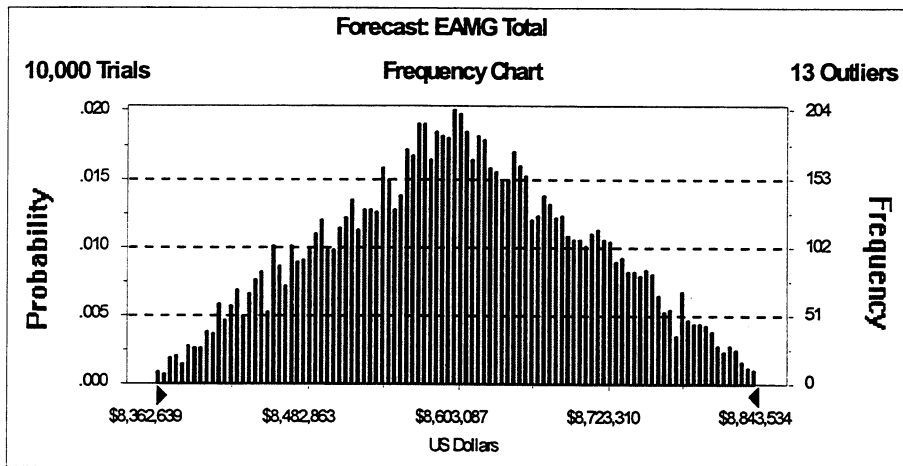
Cell: D37

Summary:

Display Range is from \$8,362,639 to \$8,843,534 US Dollars
 Entire Range is from \$8,357,548 to \$8,847,084 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$1,024

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$8,602,929
Median	\$8,602,175
Mode	---
Standard Deviation	\$102,408
Variance	#####
Skewness	0.02
Kurtosis	2.39
Coeff. of Variability	0.01
Range Minimum	\$8,357,548
Range Maximum	\$8,847,084
Range Width	\$489,536
Mean Std. Error	\$1,024.08



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: EAMG Total (cont'd)

Cell: D37

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$8,357,548
5%	\$8,431,710
10%	\$8,462,649
15%	\$8,488,699
20%	\$8,510,622
25%	\$8,529,688
30%	\$8,546,936
35%	\$8,562,920
40%	\$8,576,130
45%	\$8,589,457
50%	\$8,602,175
55%	\$8,614,880
60%	\$8,628,169
65%	\$8,643,387
70%	\$8,658,117
75%	\$8,675,946
80%	\$8,695,907
85%	\$8,717,872
90%	\$8,742,235
95%	\$8,775,194
100%	\$8,847,084

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: ARWWP Operations Evaluator: Henry, Glassmeyer, Leslie, Sparks, Gilbert CAM: Ev Henry		Date: 4/26/01 Date: 4/26/01	PBS Number: 04 WBS Number: 1.1.E.E	Total Baseline Dollars (Minimum Case): \$80,551,720							
Project Task	Risk and/or Opportunity	Control Account Number: EEWW	Potential Impact	Internal Or External Driver	Impact Cost (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Wastewater Treatment	Site cleanup schedule extends wastewater treatment by 1 years		Continue operating treatment facilities for 1 years	Internal	\$7,000,000	3	50	4	\$3,500,000	5	Accept
Leachate Transfer System	LTS unacceptable failure		Stop placing material in OSDF until line is repaired/replaced	Internal	\$250,000	2	24	2	\$60,000	2	Accept
Extraction Wells	Site cleanup schedule extends well pumping by 1 years		Continue operating treatment facilities and pumping extraction wells for 1 year	Internal	\$2,000,000	3	50	4	\$1,000,000	5	Accept
Reinjection Wells	Reinjection wells fail to perform		Increase repairs or replacement of wells	Internal	\$150,000	2	70	5	\$105,000	3	Accept
Slurry Dewatering Facility	Waste container failure during storage or transport shuts down process		Interim operation and Repair/replace affected equipment	Internal	\$2,000,000	5	10	2	\$200,000	8	Accept
Slurry Dewatering Facility	Filter press failure shuts down STP and AWWT Phases I and II		Interim operation and Repair/replace affected equipment	Internal	\$5,000,000	4	20	2	\$1,000,000	5	Accept
All facilities	Inadequate process air supply Shutdown of AWWT systems		Interim operation and Repair/replace affected equipment	Internal	\$500,000	2	60	4	\$300,000	5	Accept
All facilities	Operator error/procedure error/system failure/accident resulting in shutdown or investigation all treatment facilities until investigation complete and recommendations implemented		Interim operations during long delay in treatment and costs for implementing recommendations	Internal	\$7,500,000	5	10	2	\$750,000	8	Accept
Sludge disposal	Sludge can not be disposed of through the WPRAP project or the OSDF		Procure containers and transport sludge to NTS	Internal	\$15,000,000	5	20	2	\$3,000,000	8	Accept
BSL & SWRB	Berm and/or liner damage		Immediate repair required to berm of liner	Internal	\$5,000,000	4	30	3	\$1,500,000	7	Accept
Wastewater Treatment	Loss of primary and redundant pumping systems/controls		Interim operation and Repair/replace affected equipment	Internal	\$100,000	2	60	4	\$60,000	3	Accept
All facilities	Facilities, lines and/or tanks freeze		Repair/replace affected equipment	Internal	\$1,000,000	3	20	2	\$200,000	3	Accept
Wastewater Treatment	Major NPDES permit violation		Fines and negative public perception	Internal	\$750,000	2	5	1	\$37,500	1	Accept

Risk/Opportunity Identification and Analysis Form

Project: ARWWP Operations		Date: 4/26/01		PBS Number: 04		Total Baseline Dollars (Minimum Case):		\$80,651,720		
Evaluator: Henry, Glassmeyer, Leslie, Sparks, Gilbert		WBS Number: 1.1.E.E								
CAM: Ev Henry		Date: 4/26/01		Control Account Number: EEWW						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Wastewater Treatment	Exceeding uranium discharge limitations	Fines	Internal	\$338,000	2	5	1	\$16,900	1	Accept
BSL	Unexpected contaminants or higher than expected levels in BSL	Additional treatment steps required at AWWT	Internal	\$5,000,000	4	25	2	\$1,250,000	5	Accept
Wastewater Treatment	Complete tank failure (AWWT)	Interim operation and Repair/replace affected equipment	Internal	\$750,000	2	5	1	\$37,500	1	Accept
BSL	Transfer line failure	Interim operation and Repair/replace affected equipment	Internal	\$500,000	2	5	1	\$25,000	1	Accept
All facilities	Instrumentation/communication system failure	Interim operation and Repair/replace affected equipment	Internal	\$1,000,000	3	30	3	\$300,000	4	Accept
Wastewater Treatment	Resin supply shortage inflates costs or shutdown of treatment if resin cannot be procured	Pay inflated costs increases operating costs	Internal	\$1,000,000	3	10	2	\$100,000	2	Accept
All facilities	PAAA requires subcontracting work that could be done internally	Increase in operating costs	Internal	\$2,000,000	5	20	2	\$400,000	8	Accept
Personnel staffing	Loss of key personnel. Inability to perform required tasks	Increased operating costs due to subcontracting and extra training	Internal	\$500,000	2	25	2	\$125,000	2	Accept
Extraction Wells	Piping failure	Interim operation and Repair/replace affected equipment	Internal	\$5,000,000	4	5	1	\$250,000	3	Accept
Sewage Treatment	Complete tank failure (STP)	Interim operation and Repair/replace affected equipment	Internal	\$500,000	2	5	1	\$25,000	1	Accept
Wastewater Treatment	DCS server failure	Interim operation and Repair/replace affected equipment	Internal	\$150,000	2	5	1	\$7,500	1	Accept
Total:				\$82,988,000			Total:	\$14,249,400		

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: EEWW Total

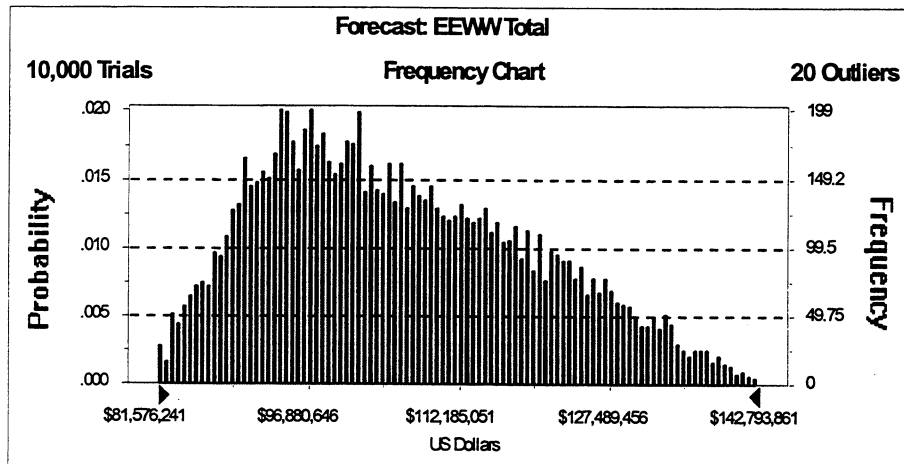
Cell: D45

Summary:

Display Range is from \$81,576,241 to \$142,793,861 US Dollars
 Entire Range is from \$80,802,368 to \$143,121,441 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$135,611

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$106,358,881
Median	\$104,570,379
Mode	---
Standard Deviation	\$13,561,142
Variance	2E + 14
Skewness	0.40
Kurtosis	2.34
Coeff. of Variability	0.13
Range Minimum	\$80,802,368
Range Maximum	\$143,121,441
Range Width	\$62,319,073
Mean Std. Error	\$135,611.42



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: EEWW Total (cont'd)

Cell: D45

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$80,802,368
5%	\$87,070,950
10%	\$89,866,600
15%	\$91,909,059
20%	\$93,852,670
25%	\$95,473,664
30%	\$97,197,395
35%	\$98,865,540
40%	\$100,767,052
45%	\$102,481,418
50%	\$104,570,379
55%	\$106,578,846
60%	\$108,881,097
65%	\$111,162,899
70%	\$113,641,236
75%	\$116,149,629
80%	\$119,076,959
85%	\$122,327,249
90%	\$125,980,190
95%	\$130,901,555
100%	\$143,121,441

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Analytical Lab Services		PBS Number: 04		Total Baseline Dollars (Minimum Case):		\$20,932,484				
Evaluator: Amy Meyer		Date: 03-21-2001		WBS Number: 1.1.E.B						
CAM: Amy Meyer		Date: 03-21-2001		Control Account Number: EBAL						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Lab operations	Unplanned instrumentation breakdown	Schedule - delay analyses report time to customer, materials - additional cost of repairs	Internal	\$300,000	2	25	2	\$75,000	2	Accept Risk
Lab operations	Site analytical needs changes and/or increases	materials, instrumentation, and supplies may need to be purchased.	Internal	\$150,000	3	60	4	\$90,000	5	Accept Risk
Lab operations	Fume hoods failure/laboratory building issues	Schedule - delay analyses report time to customer labor, materials - required for repairs	Internal	\$400,000	3	75	5	\$300,000	6	Accept Risk
Lab operations	Site schedule extended by one year	Labor and materials would be required to provide analytical case service for site	Internal	\$1,300,000	3	50	3	\$650,000	4	Accept and reduce risk
				Total:	\$2,150,000		Total:	\$1,115,000		
Lab operations	New regulatory methods required to be developed	Schedule - delay analyses performed. Materials - cost of instrumentation, supplies and labor associated with implementing method.	External	\$25,000	2	50	3	\$12,500	2	

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: EBAL Total

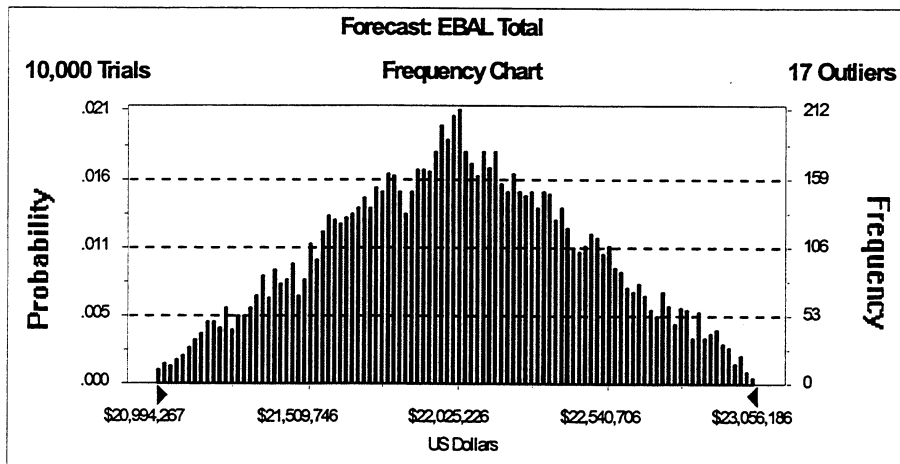
Cell: D39

Summary:

Display Range is from \$20,994,267 to \$23,056,186 US Dollars
 Entire Range is from \$20,960,731 to \$23,074,885 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$4,392

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$22,022,044
Median	\$22,020,049
Mode	---
Standard Deviation	\$439,184
Variance	2E + 11
Skewness	0.01
Kurtosis	2.42
Coeff. of Variability	0.02
Range Minimum	\$20,960,731
Range Maximum	\$23,074,885
Range Width	\$2,114,154
Mean Std. Error	\$4,391.84



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: EBAL Total (cont'd)

Cell: D39

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$20,960,731
5%	\$21,285,658
10%	\$21,428,526
15%	\$21,546,465
20%	\$21,628,003
25%	\$21,706,091
30%	\$21,776,134
35%	\$21,843,097
40%	\$21,909,460
45%	\$21,970,788
50%	\$22,020,049
55%	\$22,074,164
60%	\$22,134,853
65%	\$22,195,851
70%	\$22,264,573
75%	\$22,336,076
80%	\$22,412,533
85%	\$22,506,032
90%	\$22,609,302
95%	\$22,765,781
100%	\$23,074,885

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Environmental Monitoring		PBS Number: 04		Total Baseline Dollars (Minimum Case):		\$19,479,314	
Evaluator: M. Frank		Date: 4/26/01		Control Account Number: ECEM			
CAM: Frank/Voisard/Byrne		Date: 4/26/01					
Project Task		Risk and/or Opportunity		Potential Impact		Internal Or External Driver	
				Impact Cost \$ (Maximum Case)		Risk Probability %	
				Risk Impact Level		Risk Probability Level	
				Probable Cost \$ (Likeliest Case)		Risk Critical Value	
						Risk Handling Strategy	
Environmental Monitoring	Remediation of the site is extended by one year.	Labor, materials, and ODCs for EM-managed budget would be incurred for the extension period.	Internal	\$2,047,500	3	50	3
Environmental Monitoring	More wells need plugged and abandoned (10 wells per year) than planned and/or more well integrity evaluations are required (two per year). Assumes FY02 through FY10.	Labor, materials, ODCs and subcontract costs for EM.	Internal	\$600,000	2	20	2
Environmental Monitoring	Continuous Multilevel Tubing (CMT) wells require more maintenance than conventional wells (primarily well re-development costs of surging and pumping wells). Assumes increase costs are incurred FY02 - FY09.	Increase in labor, ODC, and possibly subcontract costs.	Internal	\$225,000	2	40	3
Environmental Monitoring	Level of sampling support from EM for the remediation projects (primarily SDFP and ARWWP) increases by 50% in any year or an increase in EM sampling staff is needed in part of a year due to some field sampling being moved up in schedule in any given year, thus requiring more resources than planned in part of a year. (Impact cost is for one year.)	Labor, materials, and ODCs for EM would increase due to additional staff (EM budgets for field training and mgmt. activities only) and materials.	Internal	\$75,000	1	40	3
Environmental Monitoring	Soil sampling equipment, primarily a Geoprobe vehicle, requires replacement due to irreparable wear through normal use (two Geoprobes in use since 1996).	Purchase new Geoprobe sampling vehicle.	Internal	\$120,000	2	50	3
Environmental Monitoring	No experienced personnel available from within FF with knowledge of Geoprobe operations and equipment as well as general environmental sampling practices.	Increase in labor cost from hiring a subcontracted Geoprobe operations instructor; plus increase training costs (additional 2 months) due to inexperienced staff.	Internal	\$95,000	1	70	4
				Total:		\$3,162,500	
				Total:		\$1,390,250	
Environmental Monitoring	Increase in IEMP surface water sample parameters or locations imposed by DOE or regulatory agencies (assumes increase begins in FY02 and continues through end of contract).	Increase in subcontract analytical costs (labor for sampling is under separate account).	External	\$435,000	2	30	3
				Total:		\$130,500	
				Total:		2	

Risk/Opportunity Identification and Analysis Form

Project: Environmental Monitoring		PBS Number: 04		Total Baseline Dollars (Minimum Case): \$19,479,314							
Evaluator: M. Frank		Date: 4/26/01		WBS Number: 1.1.E.C							
CAM: Frank/Voisard/Byrne		Date: 4/26/01		Control Account Number: ECEM							
Project Task		Risk and/or Opportunity		Potential Impact							
				Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Environmental Monitoring	Enactment of proposed 10 CR 834			External	\$176,000		2	10	2	\$17,600	2
Environmental Monitoring	EPA and/or OEPA requires additional monitoring of OSDF during 2 yr. shutdown			External	\$48,500		1	20	2	\$9,700	1
Environmental Monitoring	Opportunity: Remove field blank sample requirement from surface water sampling programs through DOE and EPAs concurrence on change to the IEMP.			Opportunity	-\$400,000		2	70	4	-\$280,000	3
Environmental Monitoring	Opportunity: Reduce number of fence line air monitoring stations from 16 to 10 beginning in FY02 with DOE and USEPA concurrence (for NESHAP Subpart D compliance purposes).			Opportunity	-\$200,800		2	35	3	-\$70,280	2
Environmental Monitoring	Opportunity: Reduce frequency of environmental air sample analysis from biweekly to monthly beginning in FY02 with DOE, USEPA, and Ohio EPA concurrence.			Opportunity	-\$116,800		2	20	2	-\$23,360	2
Environmental Monitoring	Opportunity: Reduce frequency of composite air sample analysis from quarterly to semi-annually beginning in FY02 with DOE and USEPA concurrence (for NESHAP Subpart D compliance purposes).			Opportunity	-\$160,000		2	35	3	-\$56,000	2

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: ECEM Total

Cell: D41

Summary:

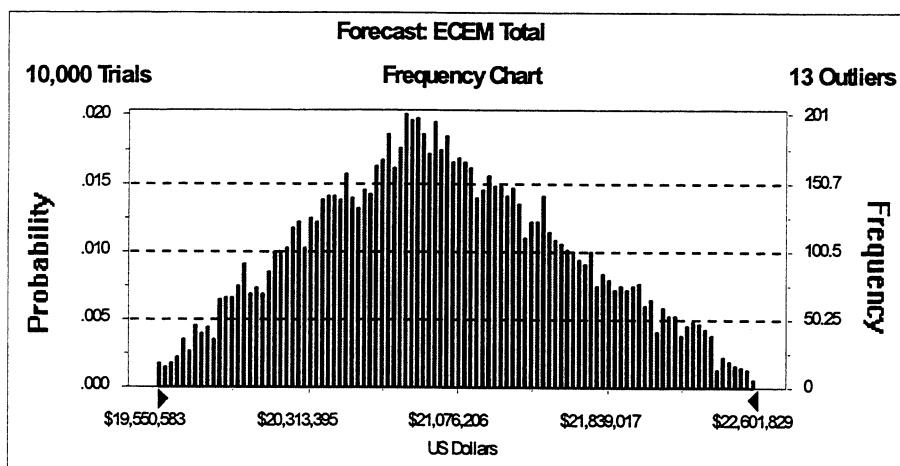
Display Range is from \$19,550,583 to \$22,601,829 US Dollars

Entire Range is from \$19,485,607 to \$22,608,366 US Dollars

After 10,000 Trials, the Std. Error of the Mean is \$6,532

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$20,989,484
Median	\$20,959,439
Mode	---
Standard Deviation	\$653,234
Variance	4E + 11
Skewness	0.15
Kurtosis	2.41
Coeff. of Variability	0.03
Range Minimum	\$19,485,607
Range Maximum	\$22,608,366
Range Width	\$3,122,760
Mean Std. Error	\$6,532.34



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: ECEM Total (cont'd)

Cell: D41

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$19,485,607
5%	\$19,940,642
10%	\$20,135,137
15%	\$20,275,963
20%	\$20,401,450
25%	\$20,508,781
30%	\$20,616,290
35%	\$20,712,726
40%	\$20,798,768
45%	\$20,875,497
50%	\$20,959,439
55%	\$21,040,568
60%	\$21,130,618
65%	\$21,232,990
70%	\$21,334,521
75%	\$21,449,992
80%	\$21,571,461
85%	\$21,724,225
90%	\$21,906,163
95%	\$22,133,082
100%	\$22,608,366

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Sample and Data Management		PBS Number: 04		Total Baseline Dollars (Minimum Case):		\$13,265,320			
Evaluator: Chris Sutton		Date: 3/23/01		WBS Number: 1.1.E.D					
CAM: Chris Sutton		Date: 3/23/01		Control Account Number: EDSD					
Project Task	Risk and/or Opportunity	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Sample and Data Management	Site operations are extended by one year.	Internal	\$1,600,000	3	50	3	\$800,000	4	Reduce risk
Sample and Data Management	Number of analyses exceeds the projected number by more than 50% in any given year	Internal	\$320,000	2	40	3	\$128,000	2	Accept risk
Sample and Data Management	Commercial plus on-site lab capacity is not available in FY04 to handle radiologic samples	Internal	\$800,000	3	30	2	\$240,000	3	Accept risk
Sample and Data Management	Data validation expertise is not available in for any one year in FY05 through FY08 to validate all the rad samples per year per Soil Project schedule	Internal	\$35,000	3	30	2	\$10,500	3	Accept risk
Sample and Data Management	Data validation expertise is not available in FY04 to validate all the rad samples per Soil Project schedule	Internal	\$75,000	4	40	3	\$30,000	7	Accept risk
Sample and Data Management	Excessive loss of critical manpower skills in chemistry and database	Internal	\$450,000	2	30	3	\$135,000	2	Accept risk
Sample and Data Management	Information Management Systems support is not available to implement SDM's proposed process improvement efficiencies per schedule	Internal	\$500,000	4	50	3	\$250,000	7	Accept risk
Total:			\$3,780,000			Total:	\$1,593,500		

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: ESDS Total

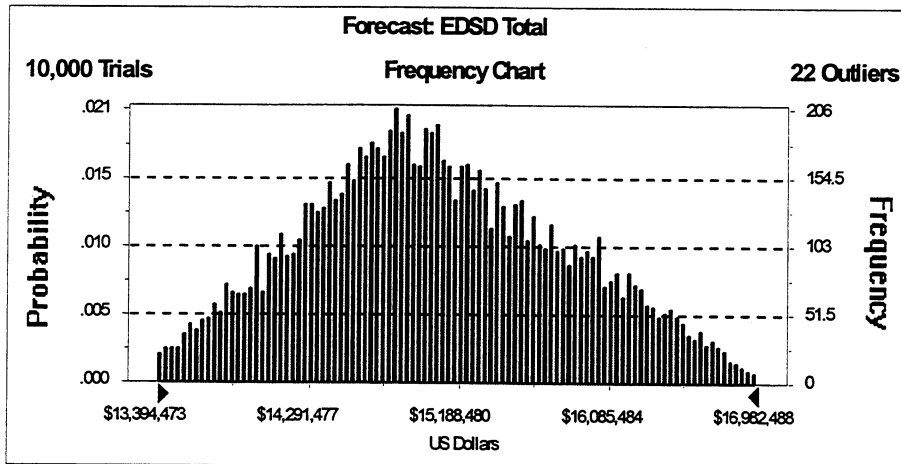
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Summary:

Display Range is from \$13,394,473 to \$16,982,488 US Dollars
 Entire Range is from \$13,281,479 to \$17,026,656 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$7,734

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$15,054,277
Median	\$15,002,977
Mode	---
Standard Deviation	\$773,430
Variance	6E + 11
Skewness	0.17
Kurtosis	2.42
Coeff. of Variability	0.05
Range Minimum	\$13,281,479
Range Maximum	\$17,026,656
Range Width	\$3,745,178
Mean Std. Error	\$7,734.30



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: EDSD Total (cont'd)

Cell: D43

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$13,281,479
5%	\$13,813,618
10%	\$14,052,083
15%	\$14,231,517
20%	\$14,369,819
25%	\$14,498,724
30%	\$14,611,457
35%	\$14,710,125
40%	\$14,808,727
45%	\$14,899,178
50%	\$15,002,977
55%	\$15,098,970
60%	\$15,213,022
65%	\$15,328,165
70%	\$15,460,139
75%	\$15,601,426
80%	\$15,760,117
85%	\$15,942,071
90%	\$16,143,105
95%	\$16,408,254
100%	\$17,026,656

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Aquifer Restoration		PBS Number: 04		Total Baseline Dollars (Minimum Case): \$22,595,632																	
Evaluator: Jack Hughes		Date: 3/28/01		WBS Number: 1.1.E.F																	
CAM: Jack Hughes		Date: 3/28/01		Control Account Number: EFEC																	
Project Task		Risk and/or Opportunity		Potential Impact		Internal Or External Driver		Impact Cost (Maximum Case)		Risk Level		Risk Probability %		Risk Probability Level		Probable Cost \$ (Likeliest Case)		Risk Critical Value		Risk Handling Strategy	
Additional Wells	Unusual weather delays, drilling cost higher, subcontract labor rates increase	Work activities are delayed	Internal			\$250,000		2		50	3		\$125,000		3	Accept					
Waste Storage Area Phase I	Unusual weather delays, drilling cost higher, subcontract labor rates increase	Work activities are delayed	Internal			\$25,000		1		50	3		\$12,500		1	Accept					
Waste Storage Area Phase II	Additional wells are required	Place additional wells	Internal			\$750,000		2		30	2		\$225,000		1	Accept					
SFES Phase II	Additional well are required, weather delays and increased subcontract labor costs	Place additional wells	Internal			\$500,000		2		30	3		\$150,000		3	Accept					
DCS Upgrades	Additional equipment is required due to major changes in equipment requirements	Implement improved equipment	Internal			\$100,000		4		25	2		\$25,000		5	Accept					
SWRB/Liner Testing	Testing results indicate replacement is required	Replace liner	Internal			\$750,000		2		35	3		\$262,500		5	Accept					
AWWT Heat	Unusual weather delays, unforeseen equipment failures, subcontract cost are higher when bid	Short delays and extra equipment repair or replacements	Internal			\$50,000		1		30	3		\$15,000		7	Accept					
Leachate Reroute	Unusual weather delays, unforeseen equipment failures, subcontract cost are higher when bid	Short delays and extra equipment repair or replacements	Internal			\$25,000		1		30	2		\$7,500		2	Accept					
OSDF EPLTS VH#7	Unusual weather delays, unforeseen equipment failures, subcontract cost are higher when bid	Short delays and extra equipment repair or replacements	Internal			\$200,000		2		30	2		\$60,000		5	Accept					
						Total:				Total:											
						Total:				Total:											
AWWT Process Improvements	Additional process improvements are required to meet EPA requirements	Implement Process improvements	External			\$1,500,000		3		25	2		\$375,000		5						

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: EFEC Total

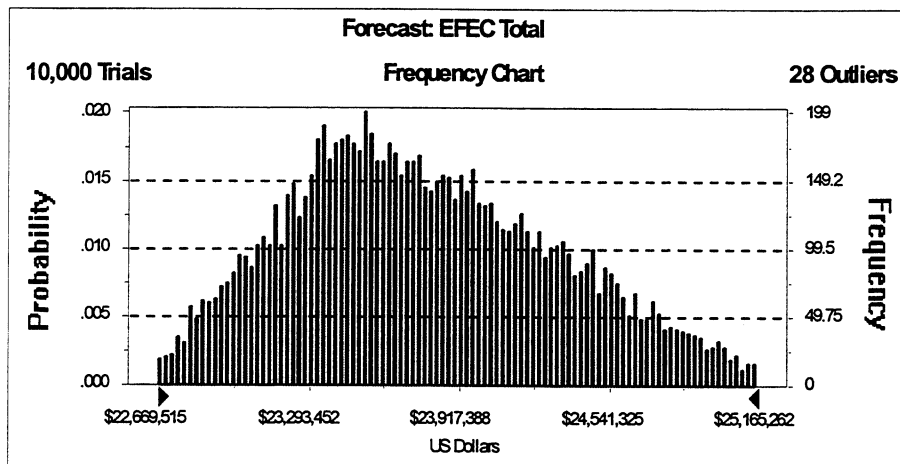
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Summary:

Display Range is from \$22,669,515 to \$25,165,262 US Dollars
 Entire Range is from \$22,603,295 to \$25,230,243 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$5,496

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$23,775,513
Median	\$23,721,159
Mode	---
Standard Deviation	\$549,620
Variance	3E + 11
Skewness	0.31
Kurtosis	2.41
Coeff. of Variability	0.02
Range Minimum	\$22,603,295
Range Maximum	\$25,230,243
Range Width	\$2,626,948
Mean Std. Error	\$5,496.20



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: EFEC Total (cont'd)

Cell: D47

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$22,603,295
5%	\$22,938,944
10%	\$23,085,202
15%	\$23,194,768
20%	\$23,287,252
25%	\$23,360,693
30%	\$23,432,405
35%	\$23,502,872
40%	\$23,568,840
45%	\$23,643,233
50%	\$23,721,159
55%	\$23,800,471
60%	\$23,884,128
65%	\$23,970,074
70%	\$24,058,784
75%	\$24,164,989
80%	\$24,276,959
85%	\$24,405,137
90%	\$24,553,423
95%	\$24,759,339
100%	\$25,230,243

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: ARWWP Monitoring and Reporting		PBS Number: 04		Total Baseline Dollars (Minimum Case): \$26,663,089									
Evaluator: CAM: W. HERTEL		Date: March 29, 2001		WBS Number: 1.1.E.G									
Project Task		Risk and/or Opportunity		Control Account Number:		EGMR							
				Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy		
Groundwater Remedy Performance Monitoring & Reporting	Installation of the Plant 6 Aquifer Restoration Module is required precipitating need for additional monitoring wells and subsequent monitoring and reporting.	Will require additional subcontracted services for well installation, labor and material for the additional sampling efforts, additional subcontracted analytical services for the additional samples and additional labor to evaluate and report the data.	Internal	\$288,000	2		30	2	\$86,400	2	Accept		
Groundwater Remedy Performance Monitoring & Reporting	Substantive new aquifer contamination as a result of source removal activities.	Will require additional subcontracted services for well installation, labor and material for the additional sampling efforts, additional subcontracted analytical services for the additional samples and additional labor to evaluate and report the data.	Internal	\$240,000	2		40	3	\$96,000	2	Accept		
Groundwater Remedy Performance Monitoring & Reporting	Monitoring scope increase due to comingling (or perceived comingling) with Paddys Run Roadside Plume.	Will require additional subcontracted services for well installation, labor and material for the additional sampling efforts, additional subcontracted analytical services for the additional samples and additional labor to evaluate and report the data.	Internal	\$240,000	2		40	3	\$96,000	2	Accept		
Groundwater Remedy Performance Monitoring & Reporting	Excessive drawdown during an extended drought.	Will require additional subcontracted services for well installation.	Internal	\$600,000	2		20	2	\$120,000	2	Accept		
Groundwater Remedy Performance Monitoring & Reporting	Soils project is delayed by Silo project extension precipitating a 1 year contract extension	Continued groundwater and OSDF monitoring and reporting for an additional year	Internal	\$2,200,000	3		50	3	\$1,100,000	4	Accept		
				Total:	\$3,568,000			Total:	\$1,498,400				

Risk/Opportunity Identification and Analysis Form

Project: ARWWP Monitoring and Reporting		PBS Number: 04		Total Baseline Dollars (Minimum Case): \$26,663,089					
Evaluator: CAM: W. HERTEL		Date: March 29, 2001		WBS Number: 1.1.E.G					
Project Task		Risk and/or Opportunity Potential Impact		EGMR					
		Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Groundwater Remedy Performance Monitoring & Reporting	EPA requires additional constituents to be analyzed for in groundwater samples collected to monitor the performance of the groundwater remedy.	External	\$2,244,000	3	30	2	\$673,200	3	
Groundwater Remedy Performance Monitoring & Reporting	Reduce groundwater monitoring constituent list to just total uranium.	Internal	-\$2,200,000	3	30	2	-\$660,000		
OSDF Leak Detection Monitoring & Reporting	Reduce OSDF leak detection monitoring constituent list.	Internal	-\$700,000	2	50	3	-\$350,000		

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: EGMR Total

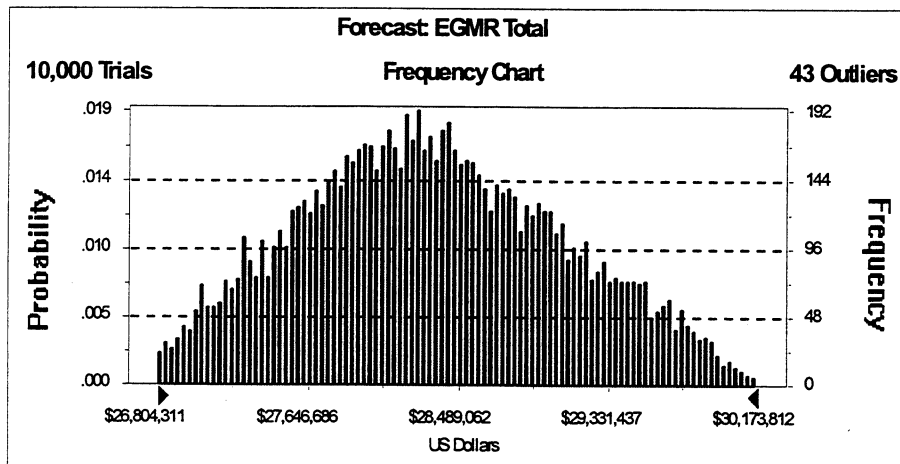
Cell: D49

Summary:

Display Range is from \$26,804,311 to \$30,173,812 US Dollars
 Entire Range is from \$26,665,845 to \$30,209,097 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$7,372

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$28,345,906
Median	\$28,313,753
Mode	---
Standard Deviation	\$737,211
Variance	5E + 11
Skewness	0.14
Kurtosis	2.37
Coeff. of Variability	0.03
Range Minimum	\$26,665,845
Range Maximum	\$30,209,097
Range Width	\$3,543,252
Mean Std. Error	\$7,372.11



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: EGMR Total (cont'd)

Cell: D49

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$26,665,845
5%	\$27,159,988
10%	\$27,373,121
15%	\$27,547,330
20%	\$27,682,473
25%	\$27,803,164
30%	\$27,914,212
35%	\$28,014,676
40%	\$28,117,930
45%	\$28,217,996
50%	\$28,313,753
55%	\$28,412,949
60%	\$28,510,605
65%	\$28,619,751
70%	\$28,745,104
75%	\$28,878,720
80%	\$29,012,638
85%	\$29,174,230
90%	\$29,377,058
95%	\$29,627,321
100%	\$30,209,097

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: WPRAP Management		PBS Number: 05		Total Baseline Dollars (Minimum Case): \$8,207,573						
Evaluator: Dalga		WBS Number: 1.1.F.A								
CAM/C. Fike		Control Account Number: FEAA								
Date: April 20, 2001		Date: April 20, 2001								
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost (Maximum Case)	Risk Level	Risk Probability %	Risk Probability Level	Probable Cost (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Waste Processing	Minor delays due to utility shortfalls, groundwater intrusion, funding shortfall and/or processing delays	2 month schedule extension	Internal	\$400,000.00	2	70	4	\$280,000.00	3	Reduce Risk
Waste Shipping	Major delays due to railcar leaking, railcar accident, etc	6 month schedule extension	Internal	\$1,200,000.00	4	5	1	\$60,000.00	3	Reduce Risk
Waste Processing	Higher density and optimum moisture waste causes an additional 100,000 tons	1 year schedule extension to process 100,000 additional tons	Internal	\$2,400,000.00	5	95	5	\$2,280,000.00	12	Accept
Waste Processing	Higher density and optimum moisture waste causes an additional 80,000 tons	9 month schedule extension to process 80,000 additional tons	Internal	\$1,800,000.00	5	70	4	\$1,260,000.00	11	Reduce/Mitigate
Waste Processing	Higher density and optimum moisture waste causes an additional 30,000 tons	3 month schedule extension	Internal	\$600,000.00	3	60	4	\$360,000.00	5	Reduce/Mitigate
Subsoils Excavation	Delays due to sequencing changes in subsoil excavation and dryer utilization	Additional 1 ft of pit-subsurface soils goes to core	Internal	\$1,200,000.00	4	50	3	\$600,000.00	7	Accept
Waste Processing	Additional controls required for addressing radiological airborne levels	3 month schedule extension and cost increase	Internal	\$600,000.00	3	25	2	\$150,000.00	3	Accept

Risk/Opportunity Identification and Analysis Form

Project: WPRAP Management		PBS Number: 05		Total Baseline Dollars (Minimum Case):		\$8,207,573	
Evaluator: Dalga		Date: April 20, 2001		WBS Number: 1.1.F.A			
CAM: C. Fike		Date: April 20, 2001		Control Account Number: FEAA			
Project Task		Risk and/or Opportunity		Potential Impact		Internal Impact	
						Internal Or External Driver	
						Impact Cost (Maximum Case)	
						Risk Level	
						Risk Probability %	
						Risk Probability Level	
						Probable Cost (Likeliest Case)	
						Risk Critical Value	
						Risk Handling Strategy	
						Total:	
						Total:	
						Total:	

Waste Shipping	Major delays due to Ecare shutdown	6 month schedule extension	External	\$1,200,000.00	4	10	2	\$120,000.00	5
Waste Processing	Additional tonnage due to Th-230 constraints at Envirocare	Additional 160,000 tons to be loaded, 15 month extension	External	\$3,000,000.00	5	70	4	\$2,100,000.00	11

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: FEAA Total

Cell: D52

Summary:

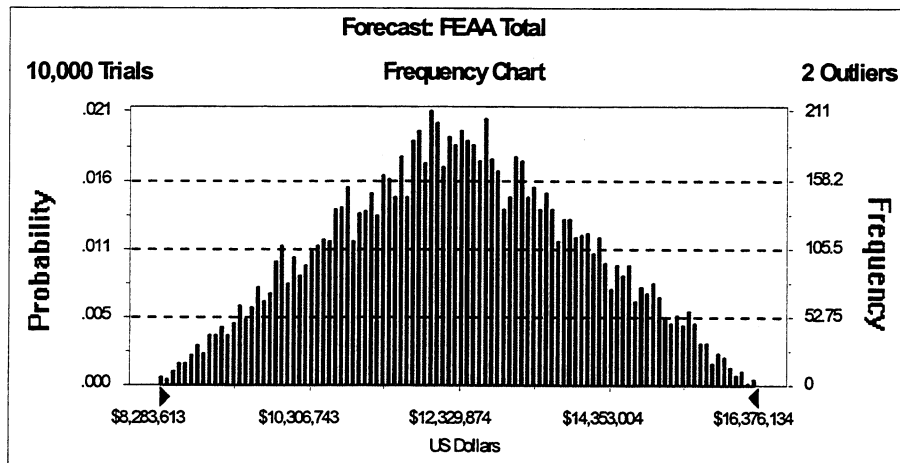
Display Range is from \$8,283,613 to \$16,376,134 US Dollars

Entire Range is from \$8,267,402 to \$16,376,134 US Dollars

After 10,000 Trials, the Std. Error of the Mean is \$16,564

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$12,281,391
Median	\$12,270,469
Mode	---
Standard Deviation	\$1,656,407
Variance	3E + 12
Skewness	0.02
Kurtosis	2.40
Coeff. of Variability	0.13
Range Minimum	\$8,267,402
Range Maximum	\$16,376,134
Range Width	\$8,108,733
Mean Std. Error	\$16,564.07



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: FEAA Total (cont'd)

Cell: D52

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$8,267,402
5%	\$9,537,605
10%	\$10,027,361
15%	\$10,453,496
20%	\$10,779,650
25%	\$11,091,637
30%	\$11,362,839
35%	\$11,620,905
40%	\$11,842,196
45%	\$12,051,620
50%	\$12,270,469
55%	\$12,483,895
60%	\$12,699,676
65%	\$12,937,748
70%	\$13,188,404
75%	\$13,467,793
80%	\$13,778,873
85%	\$14,111,433
90%	\$14,542,666
95%	\$15,061,464
100%	\$16,376,134

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Load/Excavate		PBS Number: 05		Total Baseline Dollars (Minimum Case):		\$153,509,879				
Evaluator: Dalga		Date: April 20, 2001		WBS Number: 1.1.F.B						
CAM:Dennis Dalga		Date: April 20, 2001		Control Account Number: FCBB						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Waste Processing	Minor delays due to utility shortfalls, groundwater intrusion, funding shortfall and/or processing delays	2 month schedule extension	Internal	\$2,000,000.00	3	70	4	\$1,400,000.00	5	Reduce Risk
Waste Shipping	Major delays due to railcar leaking, railcar accident, etc	6 month schedule extension	Internal	\$6,000,000.00	4	5	1	\$300,000.00	3	Reduce Risk
Waste Processing	Higher density and optimum moisture waste causes an additional 100,000 tons	1 year schedule extension to process 100,000 additional tons	Internal	\$20,000,000.00	5	95	5	\$19,000,000.00	R1-D-680	Accept
Waste Processing	Higher density and optimum moisture waste causes an additional 100,000 tons	1 year schedule extension to process 100,000 additional tons	Internal	\$20,000,000.00	5	70	R1-E-764	\$19,000,000.00	R1-E-764	Reduce/Mitigate
Waste Processing	Higher density and optimum moisture waste causes an additional 80,000 tons	9 month schedule extension to process 80,000 additional tons	Internal	\$16,000,000.00	5	70	4	\$11,200,000.00	12	Reduce/Mitigate
Waste Processing	Higher density and optimum moisture waste causes an additional 80,000 tons	9 month schedule extension to process 80,000 additional tons	Internal	\$16,000,000.00	5	70	R1-E-764	\$11,200,000.00	R1-E-764	Reduce/Mitigate
Waste Processing	Higher density and optimum moisture waste causes an additional 80,000 tons	9 month schedule extension to process 80,000 additional tons	Internal	\$16,000,000.00	5	70	R1-E-764	\$11,200,000.00	R1-D-357	Reduce/Mitigate
Subsoils Excavation	Delays due to sequencing changes in subsoil excavation and dryer utilization	3 month schedule extension	Internal	\$3,000,000.00	3	60	4	\$1,800,000.00	5	Reduce/Mitigate
Subsoils Excavation	Additional 1 ft of pit subsurface soils goes to Ecore	Processing add'l 50,000 tons of soils, add'l 6 months of operation	Internal	\$10,000,000.00	5	50	3	\$5,000,000.00	10	Accept
Subsoils Excavation	Additional 1 ft of pit subsurface soils goes to Ecore	Processing add'l 50,000 tons of soils, add'l 6 months of operation	Internal	\$10,000,000.00	5	50	3	\$5,000,000.00	R1-D-680	Accept

Risk/Opportunity Identification and Analysis Form

Project: Load/Excavate		PBS Number: 05		Total Baseline Dollars (Minimum Case):		\$153,509,879					
Evaluator: Dalga		Date: April 20, 2001		WBS Number: 1.1.F.B							
CAM:Dennis Dalga		Date: April 20, 2001		Control Account Number: FCBB							
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost (Maximum Case)	Risk Level	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Waste Processing	Additional controls required for addressing radiological airborne levels	3 month schedule extension and cost increase	Internal	\$3,000,000.00	3	25	2	\$750,000.00	3	Accept	
Waste Processing	Differing site conditions	Treat and process additional volumes	Internal	\$10,000,000.00	5	50	3	\$5,000,000.00	10	Accept	
Pit Excavatio	Pit 4 has different excavation and handling strategy	6 month schedule extension and cost increase to Pit 4	Internal	\$1,500,000.00	3	90	5	\$1,350,000.00	6	Accept	
				Total:	\$73,500,000.00		Total:	\$38,100,000.00			
Waste Shipping	Major delays due to Ecare shutdown	6 month schedule extension	External	\$6,000,000.00	4	25	2	\$1,500,000.00	5		
Waste Processing	Additional tonnage due to Th-230 constraints at Envirocare	Additional 160,000 tons to be loaded, 15 month extension	External	\$35,000,000.00	5	70	4	\$24,500,000.00	11		

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: FCBB Total

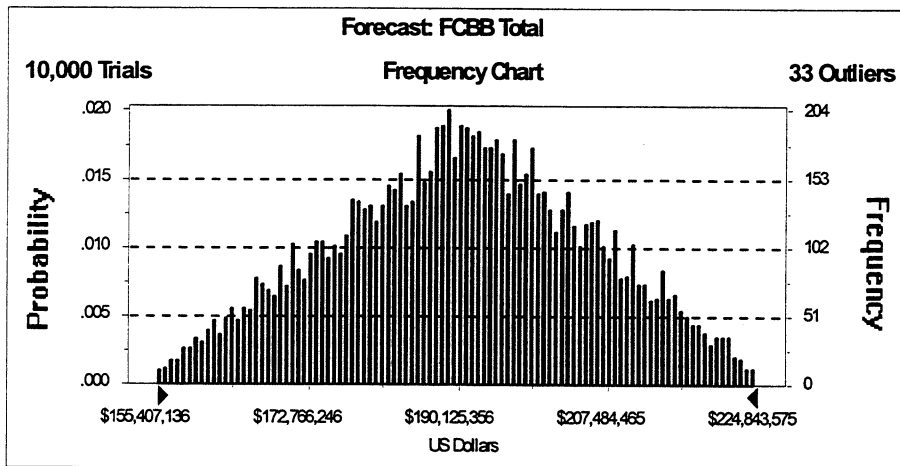
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Summary:

Display Range is from \$155,407,136 to \$224,843,575 US Dollars
 Entire Range is from \$154,106,131 to \$226,706,717 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$149,453

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$190,693,657
Median	\$190,848,627
Mode	---
Standard Deviation	\$14,945,275
Variance	2E + 14
Skewness	-0.03
Kurtosis	2.42
Coeff. of Variability	0.08
Range Minimum	\$154,106,131
Range Maximum	\$226,706,717
Range Width	\$72,600,586
Mean Std. Error	\$149,452.75



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: FCBB Total (cont'd)

Cell: D54

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$154,106,131
5%	\$165,360,305
10%	\$170,216,056
15%	\$173,989,732
20%	\$177,413,077
25%	\$179,990,149
30%	\$182,607,877
35%	\$185,027,028
40%	\$187,113,837
45%	\$188,949,903
50%	\$190,848,627
55%	\$192,670,661
60%	\$194,605,756
65%	\$196,792,749
70%	\$198,869,359
75%	\$201,311,525
80%	\$204,105,376
85%	\$207,041,584
90%	\$210,732,872
95%	\$215,560,992
100%	\$226,706,717

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Ship & Disposal Operations		PBS Number: 05		Total Baseline Dollars (Minimum Case):		\$52,408,642				
Evaluator: Bensen		Date: April 20, 2001		WBS Number: 1.1.F.C						
CAM: Jeff Rowe		Date: April 20, 2001		Control Account Number: FDEC						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost (Maximum Case)	Risk Level	Risk Probability %	Risk Probability Level	Probable Cost (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Waste Processing	Minor delays due to utility shortfalls, groundwater intrusion, funding shortfall and/or processing delays	2 month schedule extension	Internal	\$310,000.00	2	70	4	\$217,000.00	3	Reduce Risks
Waste Shipping	Major delays due to railcar leaking, railcar accident, etc.	6 month schedule extension	Internal	\$930,000.00	4	5	1	\$46,500.00	3	Reduce Risk
Waste Processing	Higher density and optimum moisture waste causes an additional 100,000 tons	1 year schedule extension to ship/dispose 100,000 of additional tons	Internal	\$22,500,000.00	5	95	5	\$21,375,000.00	12	Accept
Waste Processing	Higher density and optimum moisture waste causes an additional 100,000 tons	9 month schedule extension to ship/dispose of 80,000 additional tons	Internal	\$17,000,000.00	5	70	4	\$11,900,000.00	12	Reduce/Mitigate
Waste Processing	Delays due to sequencing changes in subsoil excavation and dryer utilization	3 month schedule extension	Internal	\$465,000.00	3	60	4	\$279,000.00	5	Reduce/Mitigate
Subsoils Excavation	Additional 1 ft of pit subsoil goes to surface	Processing add'l 50,000 tons of soils, adds 6 months of operation	Internal	\$10,000,000.00	5	50	3	\$5,000,000.00	10	Accept
Subsoils Excavation	Additional 1 ft of pit subsoil goes to surface	Processing add'l 50,000 tons of soils, adds 6 months of operation	Internal	\$10,000,000.00	5	50	3	\$5,000,000.00	10	Accept
Subsoils Excavation	Additional 1 ft of pit subsoil goes to surface	Processing add'l 50,000 tons of soils, adds 6 months of operation	Internal	\$10,000,000.00	5	50	3	\$5,000,000.00	10	Accept
Subsoils Excavation	Additional 1 ft of pit subsoil goes to surface	Processing add'l 50,000 tons of soils, adds 6 months of operation	Internal	\$10,000,000.00	5	50	3	\$5,000,000.00	10	Accept

Risk/Opportunity Identification and Analysis Form

Project: Ship & Disposal Operations		PBS Number:05		Total Baseline Dollars (Minimum Case):		\$52,408,642				
Evaluator:Bensen Date: April 20, 2001		WBS Number:1.1.F.C								
CAM:Jeff Rowe Date: April 20, 2001		Control Account Number:FDEC								
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost (Maximum Case)	Risk Level	Risk Impact %	Risk Probability Level	Probable Cost (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Waste Processing	Additional controls required for addressing radiological airborne levels	3 month schedule extension and cost increase	Internal	\$465,000.00	3	25	2	\$116,250.00	3	Accept
Shipping & Disposal	Locomotive/Trackmobile Replacement	Cost/Schedule Increase	Internal	\$650,000.00	2	25	2	\$162,500.00	2	Accept/Reduce with maintenance
				Total:	\$54,320,000.00		Total:	\$30,571,250.00		
Shipping & Disposal	Rail Tender Increase	Cost Increase	External	\$1,000,000.00	3	50	4	\$500,000.00	3	
Shipping & Disposal	Utah imposes state tax on waste beginning in 2002	Cost Increase	External	\$4,605,000.00	3	25	2	\$1,151,250.00	3	
Waste Shipping	Major delays due to Ecare Shutdown	6 month schedule extension	External	\$930,000.00	4	25	2	\$232,500.00	5	
Waste Processing	Additional tonnage due to Th-230 constraints at Envirocare	Additional 160,000 tons to be shipped, 15 month extension	External	\$162,505,000.00	5	70	4	\$100,805,250.00	11	

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: FDEC Total

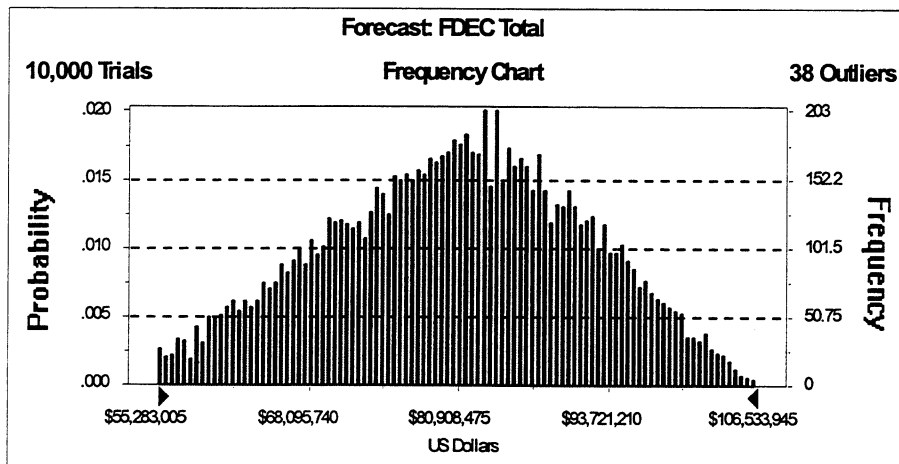
Cell: D56

Summary:

Display Range is from \$55,283,005 to \$106,533,945 US Dollars
 Entire Range is from \$53,151,857 to \$106,533,945 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$110,184

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$80,617,095
Median	\$81,086,874
Mode	---
Standard Deviation	\$11,018,378
Variance	1E + 14
Skewness	-0.12
Kurtosis	2.39
Coeff. of Variability	0.14
Range Minimum	\$53,151,857
Range Maximum	\$106,533,945
Range Width	\$53,382,088
Mean Std. Error	\$110,183.78



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: FDEC Total (cont'd)

Cell: D56

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$53,151,857
5%	\$61,530,301
10%	\$65,465,699
15%	\$68,251,975
20%	\$70,569,748
25%	\$72,694,517
30%	\$74,665,184
35%	\$76,396,302
40%	\$78,055,763
45%	\$79,590,963
50%	\$81,086,874
55%	\$82,504,837
60%	\$83,972,939
65%	\$85,432,828
70%	\$86,990,093
75%	\$88,694,173
80%	\$90,559,226
85%	\$92,619,399
90%	\$95,043,020
95%	\$98,314,257
100%	\$106,533,945

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Non-Typical Waste		PBS Number: 05		Total Baseline Dollars (Minimum Case):		\$7,322,432				
Evaluator: Dalga		Date: April 20, 2001		WBS Number: 1.1.F.D						
CAM:W. Bensen		Date: April 20, 2001		Control Account Number: FNTW						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$K (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Non-Typical Waste	Increase in non-typical waste quantities by 50%	Treatment cost for additional waste	Internal	\$4,000,000.00		3	25	2	\$1,000,000.00	3 Accept
Total:				\$4,000,000.00				Total:	\$1,000,000.00	

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: FNTW Total

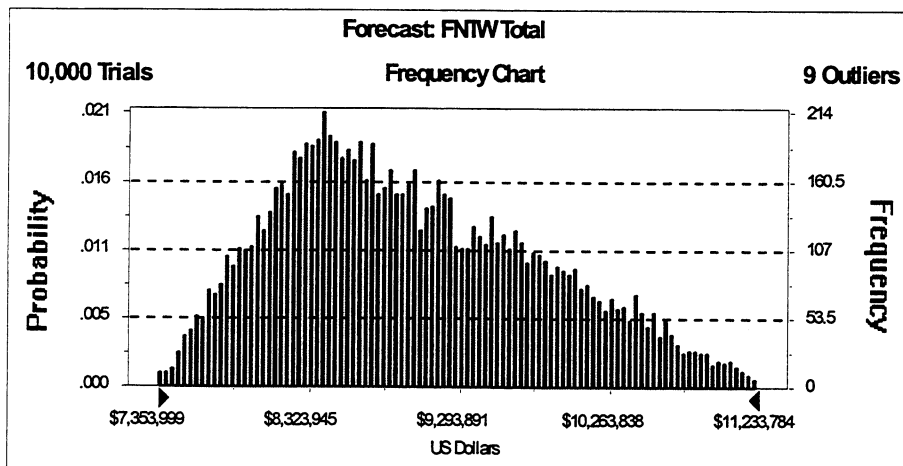
Cell: D58

Summary:

Display Range is from \$7,353,999 to \$11,233,784 US Dollars
 Entire Range is from \$7,349,148 to \$11,304,294 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$8,433

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$8,995,849
Median	\$8,874,162
Mode	---
Standard Deviation	\$843,326
Variance	7E + 11
Skewness	0.42
Kurtosis	2.41
Coeff. of Variability	0.09
Range Minimum	\$7,349,148
Range Maximum	\$11,304,294
Range Width	\$3,955,146
Mean Std. Error	\$8,433.26



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: FNTW Total (cont'd)

Cell: D58

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$7,349,148
5%	\$7,785,461
10%	\$7,972,879
15%	\$8,114,952
20%	\$8,234,550
25%	\$8,339,551
30%	\$8,437,291
35%	\$8,539,222
40%	\$8,645,044
45%	\$8,752,504
50%	\$8,874,162
55%	\$8,998,667
60%	\$9,138,833
65%	\$9,268,603
70%	\$9,440,290
75%	\$9,602,201
80%	\$9,779,710
85%	\$9,979,686
90%	\$10,218,074
95%	\$10,538,159
100%	\$11,304,294

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Solis Mgmt & Oversight		Date: 4/11/01		PBS Number: 06		Total Baseline Dollars (Minimum Case):		\$25,269,393		
Evaluator: J.D. Chiou / F. Miller		Date: 4/11/01		WBS Number: 1.1.G.A						
CAM: JD Chiou				Control Account Number: GPM1						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Solis Management and Support	Other Project (ie D&D, Silos, WGS, etc.) delays causing SDFP to be delayed by 1 year.	Carry project staff for an entire extra year. 9 FTEs	Internal	\$720,000	2	25	2	\$180,000	2	Accept Risk
Engineering Staff	Other Project (ie D&D, Silos, WGS, etc.) delays causing SDFP to be delayed by 1 year.	Carry project staff for an entire extra year. 2.5 FTEs	Internal	\$200,000	2	25	2	\$50,000	2	Accept Risk
Construction Management	Other Project (ie D&D, Silos, WGS, etc.) delays causing SDFP to be delayed by 1 year.	Carry project staff for an entire extra year. 4 FTEs	Internal	\$320,000	2	25	2	\$80,000	2	Accept Risk
Characterization Staff	Other Project (ie D&D, Silos, WGS, etc.) delays causing SDFP to be delayed by 1 year.	Carry project staff for an entire extra year. 3 FTEs	Internal	\$240,000	2	25	2	\$60,000	2	Accept Risk
Real Time Systems	Other Project (ie D&D, Silos, WGS, etc.) delays causing SDFP to be delayed by 1 year.	Carry project staff for an entire extra year. 4 FTEs	Internal	\$320,000	2	25	2	\$80,000	2	Accept Risk
				Total:	\$1,800,000		Total:	\$450,000		

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: GPM1 Total

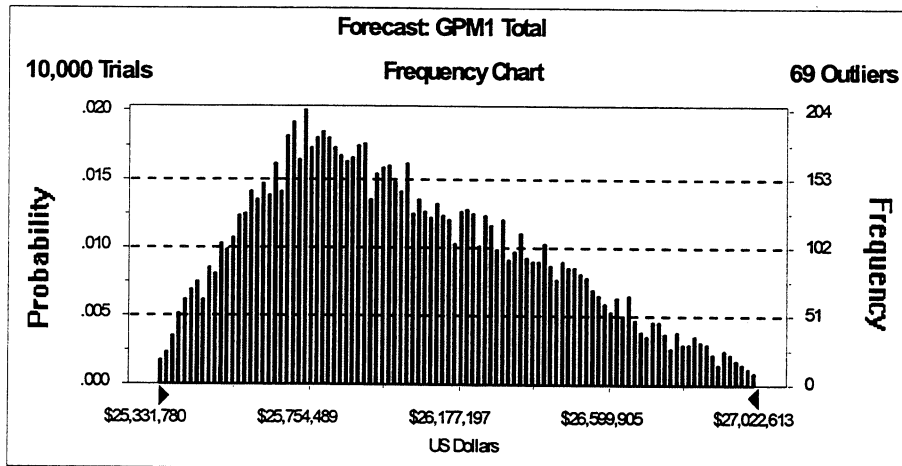
Cell: D61

Summary:

Display Range is from \$25,331,780 to \$27,022,613 US Dollars
 Entire Range is from \$25,271,105 to \$27,058,520 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$3,809

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$26,020,707
Median	\$25,967,350
Mode	---
Standard Deviation	\$380,931
Variance	1E + 11
Skewness	0.43
Kurtosis	2.44
Coeff. of Variability	0.01
Range Minimum	\$25,271,105
Range Maximum	\$27,058,520
Range Width	\$1,787,416
Mean Std. Error	\$3,809.31



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: GPM1 Total (cont'd)

Cell: D61

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$25,271,105
5%	\$25,473,562
10%	\$25,557,447
15%	\$25,620,928
20%	\$25,677,280
25%	\$25,723,510
30%	\$25,770,270
35%	\$25,816,063
40%	\$25,865,297
45%	\$25,913,477
50%	\$25,967,350
55%	\$26,022,473
60%	\$26,082,973
65%	\$26,148,510
70%	\$26,217,544
75%	\$26,290,740
80%	\$26,371,351
85%	\$26,463,393
90%	\$26,565,224
95%	\$26,719,677
100%	\$27,058,520

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Natural Resources Construction FY01		PBS Number: 06		Total Baseline Dollars (Minimum Case):		\$7,717				
Evaluator: E. Woods / F. Miller		WBS Number: 1.1.G.B								
Date: 4/11/01		Control Account Number: GCU9								
Risk and/or Opportunity		Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Project Task										
NONE										
					\$0		Total:		\$0	

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: GCU9 Total

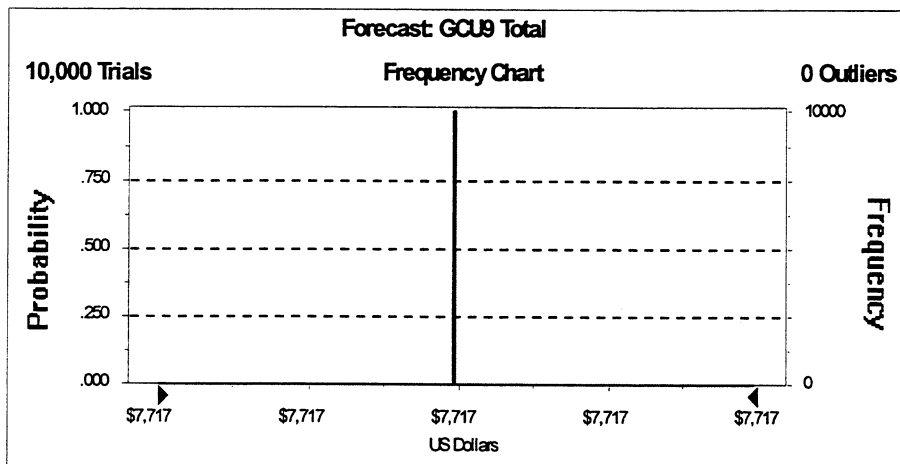
Cell: D63

Summary:

Display Range is from \$7,717 to \$7,717 US Dollars
 Entire Range is from \$7,717 to \$7,717 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$0

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$7,717
Median	\$7,717
Mode	\$7,717
Standard Deviation	\$0
Variance	\$0
Skewness	0.00
Kurtosis	+ Infinity
Coeff. of Variability	0.00
Range Minimum	\$7,717
Range Maximum	\$7,717
Range Width	\$0
Mean Std. Error	\$0.00



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: GCU9 Total (cont'd)

Cell: D63

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$7,717
5%	\$7,717
10%	\$7,717
15%	\$7,717
20%	\$7,717
25%	\$7,717
30%	\$7,717
35%	\$7,717
40%	\$7,717
45%	\$7,717
50%	\$7,717
55%	\$7,717
60%	\$7,717
65%	\$7,717
70%	\$7,717
75%	\$7,717
80%	\$7,717
85%	\$7,717
90%	\$7,717
95%	\$7,717
100%	\$7,717

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Restoration		Date: 4/11/01		PBS Number: 06		Total Baseline Dollars (Minimum Case):		\$15,393,868											
Evaluator: E. Woods / F. Miller		Date: 4/11/01		WBS Number: 1.1.G.B.															
CAM: JD Chiu		Risk and/or Opportunity		Control Account Number: GNRR															
Project Task		Potential Impact		Internal Or External Driver		Impact Cost \$ (Maximum Case)		Risk Impact Level		Risk Probability %		Risk Probability Level		Probable Cost \$ (Likeliest Case)		Risk Critical Value		Risk Handling Strategy	
Certified/Restored Area Maintenance		Maintenance requirements exceed planned levels due to weather conditions.		Internal		\$50,000		2		30		2		\$15,000		2		Accept Risk	
SWU Restoration		Loss of Plant material needed for restoration due to drought/disease impacting vendor's ability to supply material.		Internal		\$50,000		2		10		2		\$5,000		2		Accept Risk	
Northern Woodlots Restoration		Loss of Plant material needed for restoration due to drought/disease impacting vendor's ability to supply material.		Internal		\$50,000		2		10		2		\$5,000		2		Accept Risk	
Paddy's Run Corridor Restoration		Loss of Plant material needed for restoration due to drought/disease impacting vendor's ability to supply material.		Internal		\$50,000		2		10		2		\$5,000		2		Accept Risk	
OSDF/Borrow Area Restoration		Loss of Plant material needed for restoration due to drought/disease impacting vendor's ability to supply material.		Internal		\$50,000		2		10		2		\$5,000		2		Accept Risk	
Silos Area Restoration		Loss of Plant material needed for restoration due to drought/disease impacting vendor's ability to supply material.		Internal		\$50,000		2		10		2		\$5,000		2		Accept Risk	
Production/Waste Pit Area Restoration		Loss of Plant material needed for restoration due to drought/disease impacting vendor's ability to supply material.		Internal		\$50,000		2		10		2		\$5,000		2		Accept Risk	
				Total:		\$350,000								Total:		\$45,000			

Risk/Opportunity Identification and Analysis Form

Project: Restoration		PBS Number: 06		Total Baseline Dollars (Minimum Case):		\$15,393,868				
Evaluator: E. Woods / F. Miller		Date: 4/11/01		WBS Number: 1.1.G.B.						
CAW: JD Chiou		Date: 4/11/01		Control Account Number: GNRR						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
SWU Restoration	DOE/NRIS require larger-plant material for restoration activities.	Secure contract and purchase larger and more expensive plant material.	External	\$750,000	2	70	4	\$525,000	3	
Northern Woodlote Restoration	DOE/NRIS require larger-plant material for restoration activities.	Secure contract and purchase larger and more expensive plant material.	External	\$750,000	2	70	4	\$525,000	3	
Paddy's Run Corridor Restoration	DOE/NRIS require larger-plant material for restoration activities.	Secure contract and purchase larger and more expensive plant material.	External	\$750,000	2	70	4	\$525,000	3	
OSDF/Borrow Area Restoration	DOE/NRIS require larger-plant material for restoration activities.	Secure contract and purchase larger and more expensive plant material.	External	\$750,000	2	70	4	\$525,000	3	
Shoe Area Restoration	DOE/NRIS require larger-plant material for restoration activities.	Secure contract and purchase larger and more expensive plant material.	External	\$750,000	2	70	4	\$525,000	3	
Production/Waste Pit Area Restoration	DOE/NRIS require larger-plant material for restoration activities.	Secure contract and purchase larger and more expensive plant material.	External	\$3,700,000	2	70	4	\$2,190,000	3	

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: GNRR Total

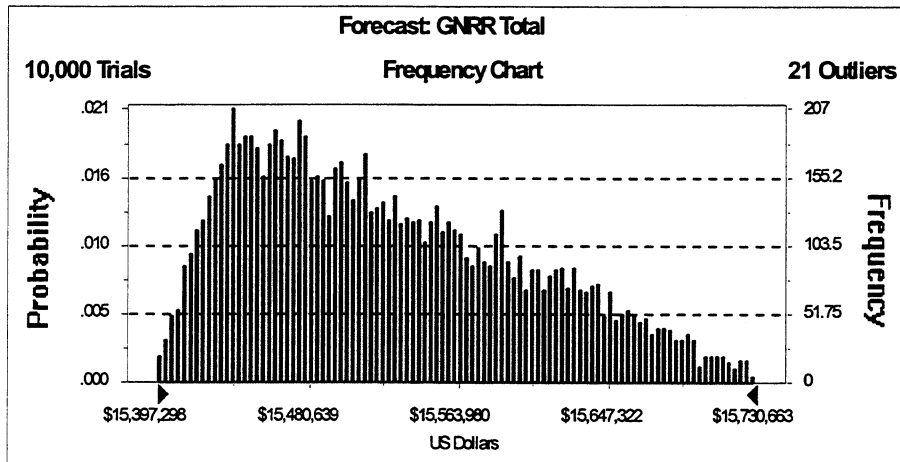
Cell: D65

Summary:

Display Range is from \$15,397,298 to \$15,730,663 US Dollars
 Entire Range is from \$15,395,263 to \$15,740,610 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$777

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$15,524,628
Median	\$15,511,331
Mode	---
Standard Deviation	\$77,682
Variance	\$6,034,529,914
Skewness	0.54
Kurtosis	2.39
Coeff. of Variability	0.01
Range Minimum	\$15,395,263
Range Maximum	\$15,740,610
Range Width	\$345,347
Mean Std. Error	\$776.82



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: GNRR Total (cont'd)

Cell: D65

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$15,395,263
5%	\$15,421,298
10%	\$15,433,072
15%	\$15,441,968
20%	\$15,450,764
25%	\$15,460,341
30%	\$15,469,552
35%	\$15,478,803
40%	\$15,488,854
45%	\$15,500,094
50%	\$15,511,331
55%	\$15,522,828
60%	\$15,535,871
65%	\$15,550,041
70%	\$15,563,748
75%	\$15,580,755
80%	\$15,597,424
85%	\$15,617,831
90%	\$15,639,474
95%	\$15,668,974
100%	\$15,740,610

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Area 1 Phase III Remediation FY01		PBS Number: 06		Total Baseline Dollars (Minimum Case):		\$196,332				
Evaluator: M. Rolfes / F. Miller		Date: 4/11/01		WBS Number: 1.1.G.C						
CAM: JD Chiou		Date: 4/11/01		Control Account Number: GC13						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
NONE										
Total:				\$0	Total:		\$0			

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: GC13 Total

Cell: D67

Summary:

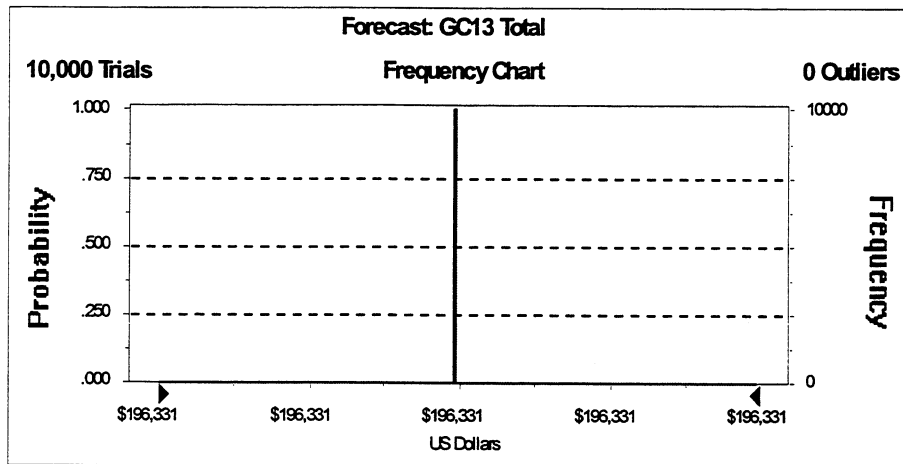
Display Range is from \$196,331 to \$196,331 US Dollars

Entire Range is from \$196,331 to \$196,331 US Dollars

After 10,000 Trials, the Std. Error of the Mean is \$0

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$196,331
Median	\$196,331
Mode	\$196,331
Standard Deviation	\$0
Variance	\$0
Skewness	0.00
Kurtosis	+ Infinity
Coeff. of Variability	0.00
Range Minimum	\$196,331
Range Maximum	\$196,331
Range Width	\$0
Mean Std. Error	\$0.00



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: GC13 Total (cont'd)

Cell: D67

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$196,331
5%	\$196,331
10%	\$196,331
15%	\$196,331
20%	\$196,331
25%	\$196,331
30%	\$196,331
35%	\$196,331
40%	\$196,331
45%	\$196,331
50%	\$196,331
55%	\$196,331
60%	\$196,331
65%	\$196,331
70%	\$196,331
75%	\$196,331
80%	\$196,331
85%	\$196,331
90%	\$196,331
95%	\$196,331
100%	\$196,331

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Area 1 Phase II Characterization FY01		PBS Number: 06		Total Baseline		Dollars (Minimum Case):		\$6,413				
Evaluator: M. Rolfes / F. Miller		Date: 4/11/01		WBS Number: 1.1.G.C								
CAM: JD Chiou		Date: 4/11/01		Control Account Number: GCJ1								
Project Task		Risk and/or Opportunity		Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
NONE												
				Total:		\$0		Total:		\$0		

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: GCJ1 Total

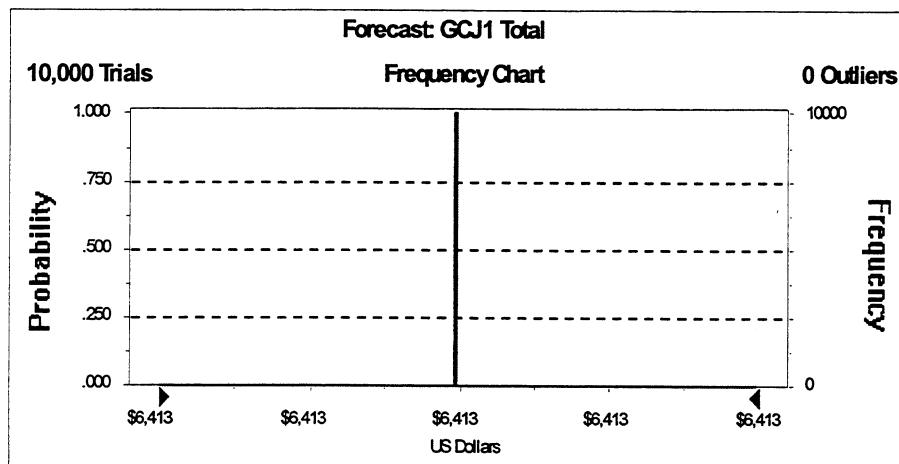
Cell: D69

Summary:

Display Range is from \$6,413 to \$6,413 US Dollars
Entire Range is from \$6,413 to \$6,413 US Dollars
After 10,000 Trials, the Std. Error of the Mean is \$0

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$6,413
Median	\$6,413
Mode	\$6,413
Standard Deviation	\$0
Variance	\$0
Skewness	0.00
Kurtosis	+ Infinity
Coeff. of Variability	0.00
Range Minimum	\$6,413
Range Maximum	\$6,413
Range Width	\$0
Mean Std. Error	\$0.00



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: GCJ1 Total (cont'd)

Cell: D69

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$6,413
5%	\$6,413
10%	\$6,413
15%	\$6,413
20%	\$6,413
25%	\$6,413
30%	\$6,413
35%	\$6,413
40%	\$6,413
45%	\$6,413
50%	\$6,413
55%	\$6,413
60%	\$6,413
65%	\$6,413
70%	\$6,413
75%	\$6,413
80%	\$6,413
85%	\$6,413
90%	\$6,413
95%	\$6,413
100%	\$6,413

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Area 1 Phase II Excavation FY01	PBS Number: 06	Total Baseline Dollars (Minimum Case):				\$15,873				
Evaluator: M. Rolles / F. Miller	Date: 4/11/01									
CAM: JD Chiou	Date: 4/11/01									
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
NONE										
			Total:	\$0			Total:		\$0	

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: GCU2 Total

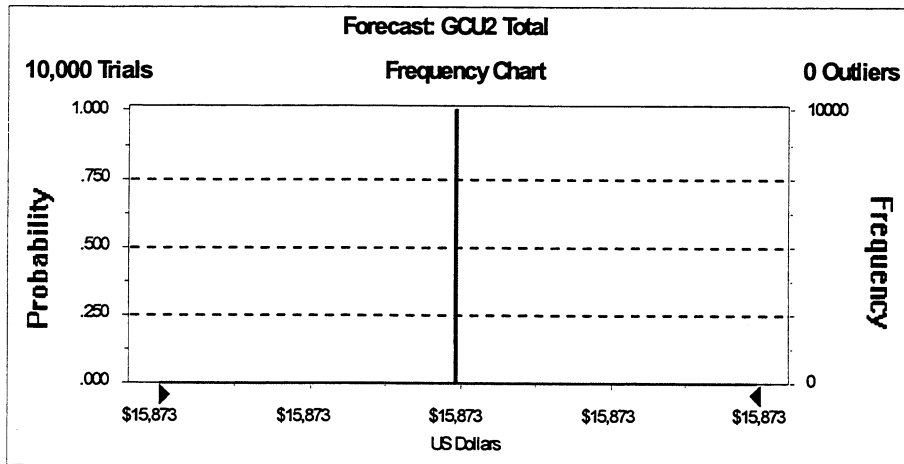
Cell: D71

Summary:

Display Range is from \$15,873 to \$15,873 US Dollars
 Entire Range is from \$15,873 to \$15,873 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$0

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$15,873
Median	\$15,873
Mode	\$15,873
Standard Deviation	\$0
Variance	\$0
Skewness	0.00
Kurtosis	+ Infinity
Coeff. of Variability	0.00
Range Minimum	\$15,873
Range Maximum	\$15,873
Range Width	\$0
Mean Std. Error	\$0.00



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: GCU2 Total (cont'd)

Cell: D71

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$15,873
5%	\$15,873
10%	\$15,873
15%	\$15,873
20%	\$15,873
25%	\$15,873
30%	\$15,873
35%	\$15,873
40%	\$15,873
45%	\$15,873
50%	\$15,873
55%	\$15,873
60%	\$15,873
65%	\$15,873
70%	\$15,873
75%	\$15,873
80%	\$15,873
85%	\$15,873
90%	\$15,873
95%	\$15,873
100%	\$15,873

End of Forecast

Risk/Opportunity Identification and Analysis Form

[illegible]

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: GCJ3 Total

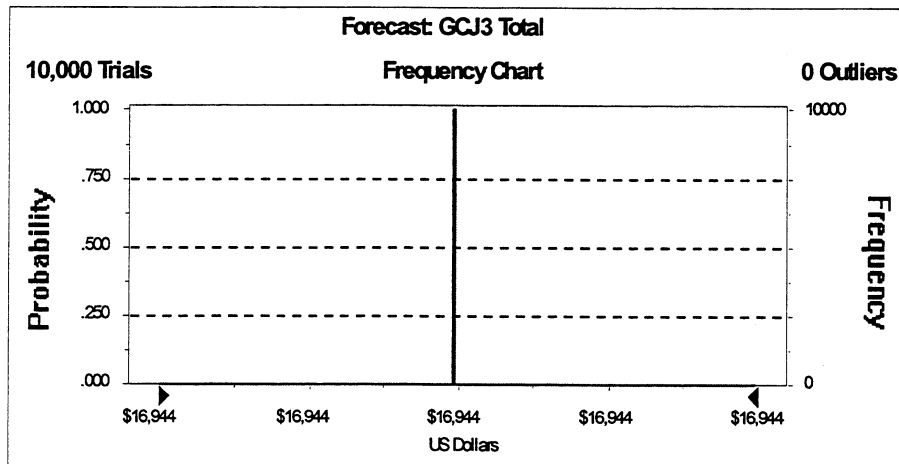
Cell: D77

Summary:

Display Range is from \$16,944 to \$16,944 US Dollars
 Entire Range is from \$16,944 to \$16,944 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$0

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$16,944
Median	\$16,944
Mode	\$16,944
Standard Deviation	\$0
Variance	\$0
Skewness	0.00
Kurtosis	+ Infinity
Coeff. of Variability	0.00
Range Minimum	\$16,944
Range Maximum	\$16,944
Range Width	\$0
Mean Std. Error	\$0.00



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: GCJ3 Total (cont'd)

Cell: D77

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$16,944
5%	\$16,944
10%	\$16,944
15%	\$16,944
20%	\$16,944
25%	\$16,944
30%	\$16,944
35%	\$16,944
40%	\$16,944
45%	\$16,944
50%	\$16,944
55%	\$16,944
60%	\$16,944
65%	\$16,944
70%	\$16,944
75%	\$16,944
80%	\$16,944
85%	\$16,944
90%	\$16,944
95%	\$16,944
100%	\$16,944

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Production Area Design FY01		PBS Number: 06		Total Baseline Dollars (Minimum Case):		\$258,638				
Evaluator: R. Abitz / F. Miller		WBS Number: 1.1.G.E								
CAM: JD Chiou		Date: 4/11/01								
Date: 4/11/01		Control Account Number: GORD								
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
NONE										
Total:				\$0			Total:	\$0		

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: GCRD Total

Cell: D79

Summary:

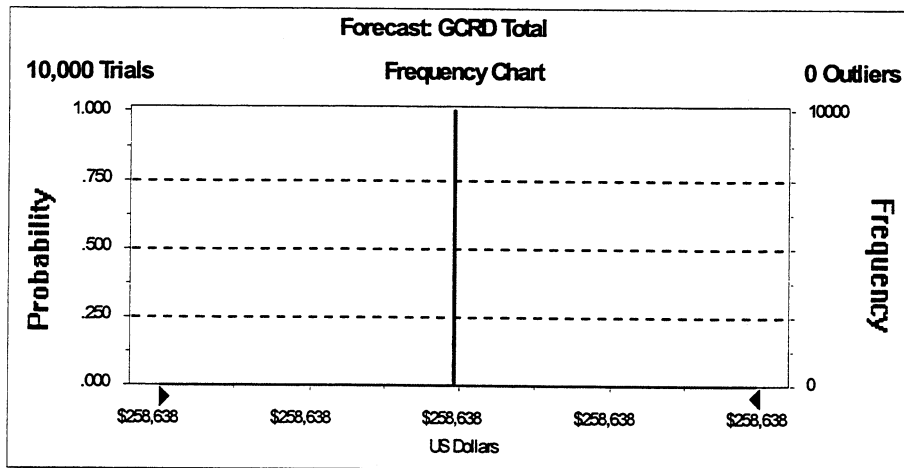
Display Range is from \$258,638 to \$258,638 US Dollars

Entire Range is from \$258,638 to \$258,638 US Dollars

After 10,000 Trials, the Std. Error of the Mean is \$0

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$258,638
Median	\$258,638
Mode	\$258,638
Standard Deviation	\$0
Variance	\$0
Skewness	0.00
Kurtosis	+ Infinity
Coeff. of Variability	0.00
Range Minimum	\$258,638
Range Maximum	\$258,638
Range Width	\$0
Mean Std. Error	\$0.00



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: GCRD Total (cont'd)

Cell: D79

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$258,638
5%	\$258,638
10%	\$258,638
15%	\$258,638
20%	\$258,638
25%	\$258,638
30%	\$258,638
35%	\$258,638
40%	\$258,638
45%	\$258,638
50%	\$258,638
55%	\$258,638
60%	\$258,638
65%	\$258,638
70%	\$258,638
75%	\$258,638
80%	\$258,638
85%	\$258,638
90%	\$258,638
95%	\$258,638
100%	\$258,638

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Production Area Waste Disposition FY01		PBS Number: 06		Total Baseline Dollars (Minimum Case):		\$12,334															
Evaluator: R. Abitz / F. Miller		WBS Number: 1.1.G.E																			
CAM: JD Chiou		Control Account Number: GCW3																			
Project Task		Risk and/or Opportunity		Potential Impact		Internal Or External Driver		Impact Cost \$ (Maximum Case)		Risk Impact Level		Risk Probability %		Risk Probability Level		Probable Cost \$ (Likeliest Case)		Risk Critical Value		Risk Handling Strategy	
NONE																					
										\$0				Total:						\$0	

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: GCW3 Total

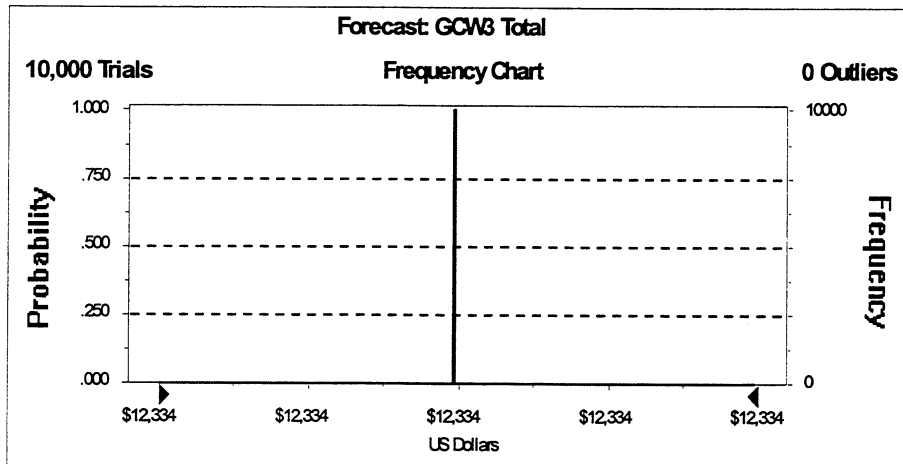
Cell: D81

Summary:

Display Range is from \$12,334 to \$12,334 US Dollars
 Entire Range is from \$12,334 to \$12,334 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$0

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$12,334
Median	\$12,334
Mode	\$12,334
Standard Deviation	\$0
Variance	\$0
Skewness	0.00
Kurtosis	+ Infinity
Coeff. of Variability	0.00
Range Minimum	\$12,334
Range Maximum	\$12,334
Range Width	\$0
Mean Std. Error	\$0.00



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: GCW3 Total (cont'd)

Cell: D81

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$12,334
5%	\$12,334
10%	\$12,334
15%	\$12,334
20%	\$12,334
25%	\$12,334
30%	\$12,334
35%	\$12,334
40%	\$12,334
45%	\$12,334
50%	\$12,334
55%	\$12,334
60%	\$12,334
65%	\$12,334
70%	\$12,334
75%	\$12,334
80%	\$12,334
85%	\$12,334
90%	\$12,334
95%	\$12,334
100%	\$12,334

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Area 2 Soils Remediation		Date: 4/11/01		PBS Number: 06		Total Baseline Dollars (Minimum Case): \$6,565,300	
Evaluator: T. Crawford / F. Miller		Date: 4/11/01		WBS Number: 1.1.G.D			
CAM: JD Chiou				Control Account Number: G211			
Project Task		Risk and/or Opportunity		Potential Impact			
		Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)
Area 2 Predesign	Additional Samples needed to bound contamination (chasing)	Internal	\$15,000	1	30	2	\$4,500
Area 2 Predesign	Insufficient access to area to acquire samples	Internal	\$30,000	3	20	2	\$6,000
Area 2 Excavation / Interim Restoration	Encountering additional flyash	Internal	\$30,000	1	50	3	\$15,000
Area 2 Excavation / Interim Restoration	Remediation activities contaminate/recontaminate areas that originally did not need remediation.	Internal	\$15,000	1	30	2	\$4,500
Area 2 Excavation / Interim Restoration	Certification Units Failure	Internal	\$108,000	2	25	2	\$27,000
Area 2 Excavation / Interim Restoration	Extreme Weather Delays	Internal	\$40,000	1	20	2	\$8,000
Area 2 Excavation / Interim Restoration	Encountering 10% more debris than was identified from predesign activities.	Internal	\$25,000	1	10	2	\$2,500
Area 2 Title III	Additional Samples needed to bound contamination (chasing)	Internal	\$8,000	1	60	4	\$4,800
Area 2 Excavation Control / Certification	Certification Units Failure	Internal	\$30,000	2	50	3	\$15,000
Area 2 Excavation Control / Certification	Off-site analysis for organic VOCs	Internal	\$10,000	2	20	2	\$2,000
Total:			\$311,000			Total:	\$89,300

Risk/Opportunity Identification and Analysis Form

Project: Area 2 Soils Remediation		PBS Number: 06		Total Baseline Dollars (Minimum Case):		\$6,565,300	
Evaluator: T. Crawford / F. Miller		Date: 4/11/01		WBS Number: 1.1.G.D			
CAM: JD Chiou		Date: 4/11/01		Control Account Number: G211			
Project Task		Risk and/or Opportunity		Potential Impact		Risk Handling Strategy	
				Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %
Area 2 Predesign	Longer EPA Review Cycle	EPA Takes 30 days longer than the normal 60 days to review documents. Schedule delay of 1 month. (1 FTE for that month)	External	\$10,000	1	30	2
							\$3,000
Area 2 Title III	Longer EPA Review Cycle	EPA Takes 30 days longer than the normal 60 days to review documents. Schedule delay of 1 month. (1 FTE for that month)	External	\$10,000	1	30	2
							\$3,000
Area 2 Excavation Control / Certification	Longer EPA Review Cycle	EPA Takes 30 days longer than the normal 60 days to review documents. Schedule delay of 1 month. (1 FTE for that month)	External	\$10,000	1	30	2
							\$3,000
							1

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: G211 Total

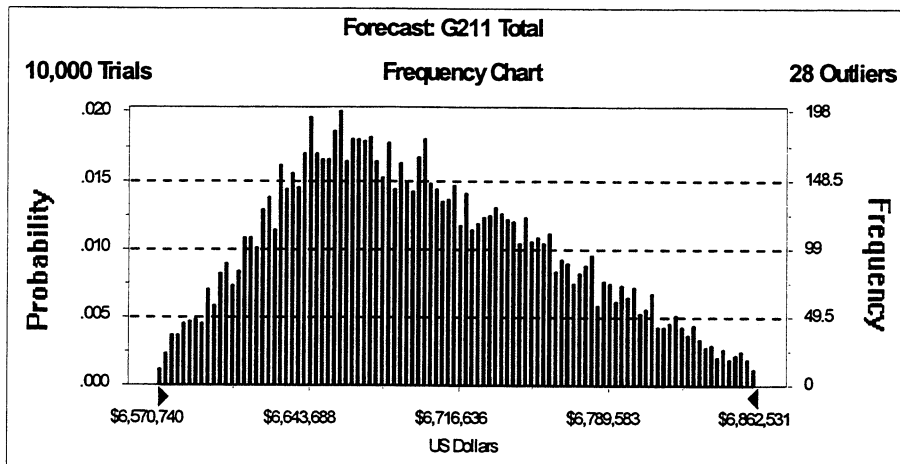
Cell: D73

Summary:

Display Range is from \$6,570,740 to \$6,862,531 US Dollars
 Entire Range is from \$6,566,162 to \$6,874,118 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$654

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$6,698,749
Median	\$6,690,992
Mode	---
Standard Deviation	\$65,369
Variance	\$4,273,111,896
Skewness	0.37
Kurtosis	2.40
Coeff. of Variability	0.01
Range Minimum	\$6,566,162
Range Maximum	\$6,874,118
Range Width	\$307,956
Mean Std. Error	\$653.69



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: G211 Total (cont'd)

Cell: D73

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$6,566,162
5%	\$6,602,384
10%	\$6,618,101
15%	\$6,629,961
20%	\$6,639,624
25%	\$6,648,100
30%	\$6,656,794
35%	\$6,664,892
40%	\$6,672,992
45%	\$6,681,790
50%	\$6,690,992
55%	\$6,700,535
60%	\$6,710,423
65%	\$6,721,348
70%	\$6,733,167
75%	\$6,745,248
80%	\$6,758,604
85%	\$6,774,307
90%	\$6,792,976
95%	\$6,816,911
100%	\$6,874,118

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Area 3A/LSP Soils Remediation		PBS Number: 06		Total Baseline Dollars (Minimum Case):		\$14,770,774				
Evaluator: R. Abitz / F. Miller		Date: 4/11/01		WBS Number: 1.1.G.E						
CAM: JD Chiou		Date: 4/11/01		Control Account Number: G3A1						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Area 3A Site Prep / Excavation	Certification Units Failure	Additional Excavation for 2 Failed CUs. 1/4 footprint of Group 1 CU at a depth of 2'. This equates to 1200cy/CU or 2400 cy @ \$30/cy	Internal	\$72,000	2	70	4	\$50,400	3	Accept Risk
Area 3A Site Prep / Excavation	Groundwater infiltration during excavation	Installation and operation of pumps to remove excess water	Internal	\$10,000	1	10	1	\$1,000	1	Accept Risk
Area 3A Site Prep / Excavation	Difficulty in Breaking Concrete	Purchase equipment / 3 month schedule delay.	Internal	\$5,000,000	4	60	4	\$3,000,000	8	Accept Risk. Develop a detailed Contingency Plan
Area 3A Site Prep / Excavation	Remediation activities contaminate/recontaminat e areas that originally did not need remediation.	Additional Excavation of 1000cy @ \$30/cy	Internal	\$30,000	1	30	2	\$9,000	1	Accept Risk
Area 3A Site Prep / Excavation	Extreme Weather Delays	Contractor delayed by weather / muddy conditions for all of April and 1/2 of May. Contractor need to work double shift for a month and a half. Impact to Fluor personnel who will cover second shift at overtime for 1.5 months.	Internal	\$77,000	1	20	2	\$15,400	1	Accept Risk
Area 3A Site Prep / Excavation	Encountering 10% more debris than was identified from redesign activities.	Additional 2000cy of CAT 2 material requiring excavation and placement at 2x the CAT 1 rate.	Internal	\$50,000	1	10	2	\$5,000	1	Accept Risk

Risk/Opportunity Identification and Analysis Form

Project: Area 3A/LSP Soils Remediation		PBS Number: 06		Total Baseline Dollars (Minimum Case):		\$14,770,774				
Evaluator: R. Abitz / F. Miller		WBS Number: 1.1.G.E								
CAM: JD Chiou		Date: 4/11/01								
Date: 4/11/01		Control Account Number: G3A1								
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Area 3A Site Prep / Excavation	No availability for OnSite Organic Treatment	Organically contaminated soil is in the way of excavation causing a month delay while the soil is containerized. The delay will be corrected for with double shifting for the month following. Impact to Fluor personnel who will cover second shift at overtime for 1 month.	Internal	\$50,000	1	20	2	\$10,000	1	Accept Risk
Area 3A Title III	Additional Samples needed to bound contamination (chasing)	DCN generation	Internal	\$8,000	1	60	4	\$4,800	2	Accept Risk
Area 3A Title III	Implementing Only A Part of the Design	Rework of IRDP to accommodate smaller scope. Rework of support plans	Internal	\$15,000	1	70	4	\$10,500	2	Accept Risk
Area 3A Offsite Waste Disposition	Containers do not meet shipping requirements	All containers must be overpacked into ISOs	Internal	\$100,000	2	30	2	\$30,000	2	Accept Risk
Area 3A Offsite Waste Disposition	Discovery of additional material needing containerization.	Containerized volume increases by 10%. Need to purchase additional boxes and ship to disposal facility.	Internal	\$10,000	1	30	3	\$3,000	1	Accept Risk
Area 3A Offsite Waste Disposition	Discovery of additional AWAC material.	AWAC volume increases by 10%. Need to ship additional material. 500cy @ \$400/cy	Internal	\$200,000	2	10	1	\$20,000	1	Accept Risk
Area 3A Onsite Waste Treatment	No availability for OnSite Organic Treatment	2000cy of Above WAC Organic Soil goes offsite using Broad Spectrum Contract	Internal	\$14,500,000	5	20	2	\$2,900,000	8	Avoid Risk - Develop A Detailed contingency Plan for Residual Risk
Area 3A Excavation Control / Certification	Certification Units Failure	2 CUs Fail - Resampling and Analysis / Schedule Delay of 2.5 months	Internal	\$20,000	2	70	4	\$14,000	3	Accept Risk

Project: Area 3A/LSP Soils Remediation		PBS Number: 06		Total Baseline Dollars (Minimum Case):		\$14,770,774
Evaluator: R. Abitz / F. Miller		WBS Number: 1.1.G.E				
Date: 4/11/01						
CAM: JD Chiou						
Date: 4/11/01						
Risk and/or Opportunity		Control Account Number: G3A1				
Project Task		Potential Impact				
		Internal Impact				
		Or External Driver				
		Impact Cost \$ (Maximum Case)				
		Risk Level				
		Risk Probability %				
		Risk Probability Level				
		Risk Critical Value				
		Risk Handling Strategy				
		Probable Cost \$ (Likeliest Case)				
		Total: \$20,142,000		Total:		\$6,073,100

PAS 06 disk rev1a.xls

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: G3A1 Total

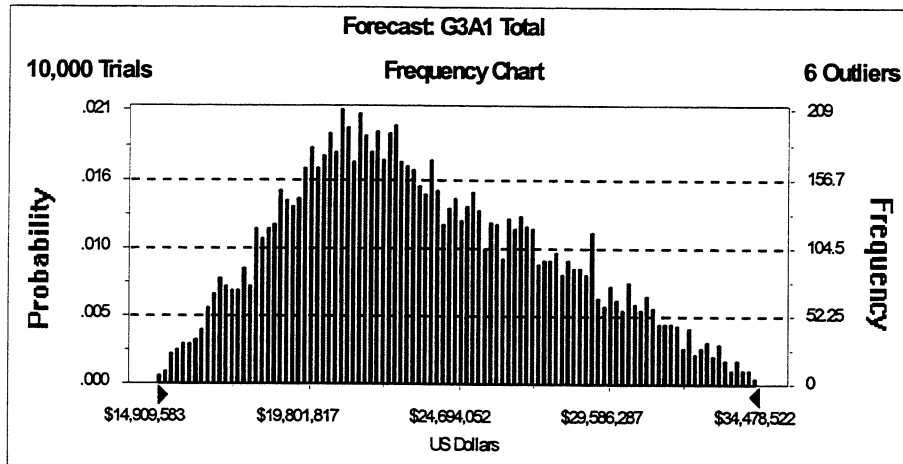
Cell: D75

Summary:

Display Range is from \$14,909,583 to \$34,478,522 US Dollars
 Entire Range is from \$14,862,271 to \$34,865,573 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$41,911

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$23,529,725
Median	\$22,962,504
Mode	---
Standard Deviation	\$4,191,117
Variance	2E + 13
Skewness	0.36
Kurtosis	2.40
Coeff. of Variability	0.18
Range Minimum	\$14,862,271
Range Maximum	\$34,865,573
Range Width	\$20,003,302
Mean Std. Error	\$41,911.17



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: G3A1 Total (cont'd)

Cell: D75

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$14,862,271
5%	\$17,281,824
10%	\$18,366,960
15%	\$19,114,803
20%	\$19,788,402
25%	\$20,366,752
30%	\$20,874,256
35%	\$21,394,410
40%	\$21,900,641
45%	\$22,424,652
50%	\$22,962,504
55%	\$23,591,652
60%	\$24,236,858
65%	\$24,960,759
70%	\$25,725,918
75%	\$26,564,985
80%	\$27,383,252
85%	\$28,423,552
90%	\$29,586,761
95%	\$31,090,756
100%	\$34,865,573

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Area 4A Soils Remediation		PBS Number: 06		Total Baseline Dollars (Minimum Case): \$13,141,426					
Evaluator: R. Abitz / F. Miller		WBS Number: 1.1.G.F							
CAM: JD Chiou		Control Account Number: G4A1							
Project Task		Potential Impact		Risk					
Risk and/or Opportunity		Impact Cost \$ (Maximum Case)		Risk Probability Level					
Certification Units Failure		Internal Or External Driver		Risk Probability Level					
Area 4A Site Prep / Excavation	Additional Excavation for 2 Failed CUs. 1/4 footprint of Group 1 CU at a depth of 2'. This equates to 1200 cy/CU or 2400cy @ \$30/cy	Internal	\$72,000	2	70	4	\$50,400	3	Accept Risk
Area 4A Site Prep / Excavation	Installation and operation of pumps to remove excess water	Internal	\$10,000	1	10	1	\$1,000	1	Accept Risk
Area 4A Site Prep / Excavation	Additional Excavation of 1000cy @ \$30/cy	Internal	\$30,000	1	30	2	\$9,000	1	Accept Risk
Area 4A Site Prep / Excavation	Contractor delayed by weather / muddy conditions for all of April and 1/2 of May. Contractor need to work double shift for a month and a half. Impact to Fluor personnel who will cover second shift at overtime for 1.5 months.	Internal	\$54,000	1	20	2	\$10,800	1	Accept Risk
Area 4A Site Prep / Excavation	Additional 3000cy of CAT 2 material requiring excavation and placement at 2x the CAT 1 rate.	Internal	\$77,000	1	10	2	\$7,700	1	Accept Risk
Area 4A Site Prep / Excavation	Organically contaminated soil is in the way of excavation causing a month delay while the soil is containerized. The delay will be corrected for with double shifting for the month following. Impact to Fluor personnel who will cover second shift at overtime for 1 month.	Internal	\$35,000	1	20	2	\$7,000	1	Accept Risk

Risk/Opportunity Identification and Analysis Form

Project: Area 4A Soils Remediation		PBS Number: 06		Total Baseline Dollars (Minimum Case): \$13,141,426						
Evaluator: R. Abitz / F. Miller		Date: 4/11/01		WBS Number: 1.1.G.F						
CAM: JD Chiu		Date: 4/11/01		Control Account Number: G4A1						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Area 4A Title III	Additional Samples needed to bound contamination (chasing) Implementing Only A Part of the Design	DCN generation	Internal	\$8,000	1	60	4	\$4,800	2	Accept Risk
Area 4A Title III		Rework of IRDP to accommodate smaller scope. Rework of support plans	Internal	\$15,000	1	70	4	\$10,500	2	Accept Risk
Area 4A Offsite Waste Disposition	Containers do not meet shipping requirements	All containers must be overpacked into ISOs	Internal	\$100,000	2	30	2	\$30,000	2	Accept Risk
Area 4A Offsite Waste Disposition	Discovery of additional material needing containerization.	Containerized volume increases by 10%. Need to purchase additional boxes and ship to disposal facility.	Internal	\$10,000	1	30	3	\$3,000	1	Accept Risk
Area 4A Offsite Waste Disposition	Discovery of additional AWAC material.	AWAC volume increases by 10%. Need to ship additional material. 1500cy @ \$400/cy	Internal	\$600,000	2	10	1	\$60,000	1	Accept Risk
Area 4A Onsite Waste Treatment	No availability for OnSite Treatment	2000cy of Above WAC Organic Soil goes offsite using Broad Spectrum Contract	Internal	\$14,500,000	5	20	2	\$2,900,000	8	Accept Risk. Develop a detailed Contingency Plan
Area 4A Excavation Control / Certification	Certification Units Failure	2 CUs Fail - Resampling and Analysis / Schedule Delay of 2.5 months	Internal	\$20,000	2	70	4	\$14,000	3	Accept Risk
Total:				\$15,531,000				\$3,108,200		
Area 4A Onsite Waste Treatment	Longer EPA Review Cycle	EPA Takes 30 days longer than the normal 60 days to review documents. Schedule delay of 1 month.	External	\$10,000	1	30	2	\$3,000	1	
Area 4A Excavation Control / Certification	Longer EPA Review Cycle	EPA Takes 30 days longer than the normal 60 days to review documents. Schedule delay of 1 month.	External	\$10,000	1	30	2	\$3,000	1	

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: G4A1 Total

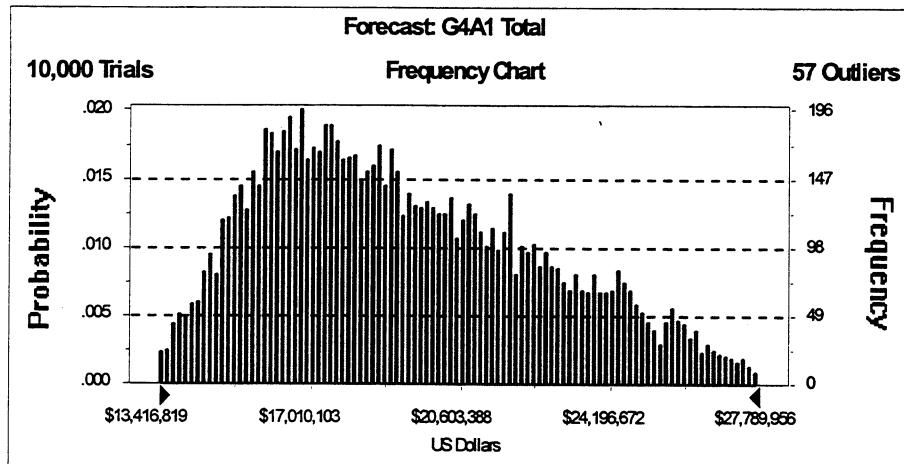
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Summary:

Display Range is from \$13,416,819 to \$27,789,956 US Dollars
 Entire Range is from \$13,161,207 to \$28,653,645 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$33,210

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$19,316,704
Median	\$18,797,477
Mode	---
Standard Deviation	\$3,320,974
Variance	1E + 13
Skewness	0.48
Kurtosis	2.41
Coeff. of Variability	0.17
Range Minimum	\$13,161,207
Range Maximum	\$28,653,645
Range Width	\$15,492,438
Mean Std. Error	\$33,209.74



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: G4A1 Total (cont'd)

Cell: D83

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$13,161,207
5%	\$14,706,110
10%	\$15,337,082
15%	\$15,840,422
20%	\$16,253,267
25%	\$16,652,046
30%	\$17,048,852
35%	\$17,469,712
40%	\$17,886,993
45%	\$18,346,023
50%	\$18,797,477
55%	\$19,284,721
60%	\$19,844,168
65%	\$20,408,844
70%	\$20,999,970
75%	\$21,685,277
80%	\$22,379,180
85%	\$23,217,576
90%	\$24,239,599
95%	\$25,493,919
100%	\$28,653,645

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Area 3B Soils Remediation		PBS Number: 06		Total Baseline Dollars (Minimum Case):		\$12,165,935			
Evaluator: R. Abitz / F. Miller		Date: 4/11/01		WBS Number: 1.1.G.G					
CAM: JD Chiou		Date: 4/11/01		Control Account Number: G3B1					
Project Task		Risk and/or Opportunity		Potential Impact					
		Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Area 3B/4B/5 PreDesign	Additional Samples needed to bound contamination (chasing)	Internal	\$205,000	2	75	4	\$153,750	3	Accept Risk
Area 3B/4B/5 Title I/II	Inadequate Engineering Discipline. Inadequate CADD or drafting experience.	Internal	\$130,000	2	40	3	\$52,000	2	Accept Risk
Area 3B Site Prep / Excavation	Certification Units Failure	Internal	\$36,000	2	60	4	\$21,600	3	Accept Risk
Area 3B Site Prep / Excavation	Groundwater infiltration during excavation	Internal	\$20,000	1	30	2	\$6,000	1	Accept Risk
Area 3B Site Prep / Excavation	Remediation activities contaminate/recontaminat e areas that originally did not need remediation.	Internal	\$30,000	1	30	2	\$9,000	1	Accept Risk
Area 3B Site Prep / Excavation	Extreme Weather Delays	Internal	\$86,000	1	20	2	\$17,200	1	Accept Risk
Area 3B Site Prep / Excavation	Encountering 10% more debris than was identified from predesign activities.	Internal	\$65,000	1	10	2	\$6,500	1	Accept Risk
Area 3B Title III	Additional Samples needed to bound contamination (chasing)	Internal	\$8,000	1	60	4	\$4,800	2	Accept Risk
Area 3B Title III	Implementing Only A Part of the Design	Internal	\$15,000	1	70	4	\$10,500	2	Accept Risk
Area 3B Offsite Waste Disposition	Containers do not meet shipping requirements	Internal	\$100,000	2	30	2	\$30,000	2	Accept Risk
Area 3B Offsite Waste Disposition	Discovery of additional material needing containerization.	Internal	\$10,000	1	30	3	\$3,000	1	Accept Risk
Area 3B Excavation Control / Certification	Certification Units Failure	Internal	\$10,000	2	60	4	\$6,000	3	Accept Risk
Total:			\$715,000				\$320,350		

Area 3B/4B/5 PreDesign	Longer EPA Review Cycle	EPA Takes 30 days longer than the normal 60 days to review documents. Schedule delay of 1 month.	External	1	30	2	\$3,000	1	
Area 3B/4B/5 Title I/II	Longer EPA Review Cycle	EPA Takes 30 days longer than the normal 60 days to review documents. Schedule delay of 1 month.	External	1	30	2	\$3,000	1	

Risk/Opportunity Identification and Analysis Form

Project: Area 3B Soils Remediation		PBS Number: 06		Total Baseline Dollars (Minimum Case):		\$12,165,935	
Evaluator: R. Abitz / F. Miller		WBS Number: 1.1.G.G					
CAM: JD Chiou		Date: 4/11/01					
Date: 4/11/01		Control Account Number: G3B1					
Risk and/or Opportunity		Potential Impact					
Area 3B Excavation Control / Certification		Longer EPA Review Cycle		Internal Or External Driver		Impact Cost \$ (Maximum Case)	
		EPA Takes 30 days longer than the normal 60 days to review documents. Schedule delay of 1 month.		Risk Probability %		Risk Probability Level	
				Risk Impact Level		Probable Cost \$ (Likeliest Case)	
				Risk Critical Value		Risk Handling Strategy	
				1		30	
				1		2	
				\$10,000		\$3,000	
				1		1	

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: G3B1 Total

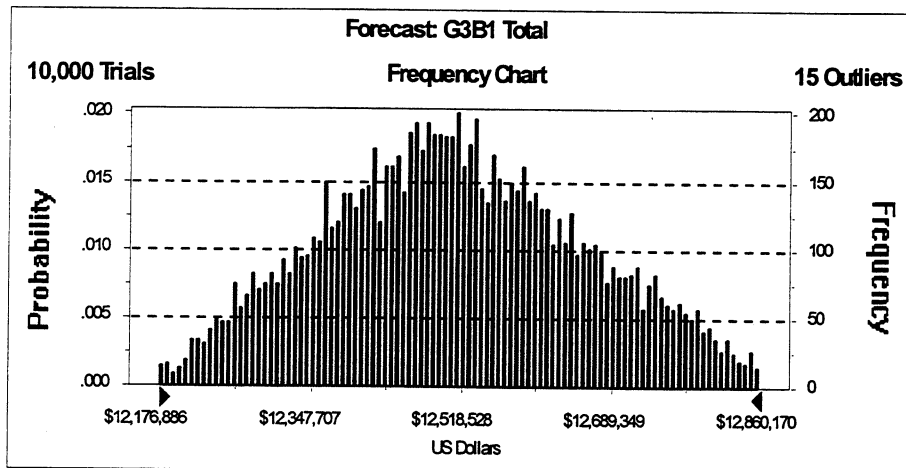
Cell: D85

Summary:

Display Range is from \$12,176,886 to \$12,860,170 US Dollars
 Entire Range is from \$12,171,537 to \$12,875,999 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$1,472

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$12,512,234
Median	\$12,506,630
Mode	---
Standard Deviation	\$147,167
Variance	#####
Skewness	0.11
Kurtosis	2.40
Coeff. of Variability	0.01
Range Minimum	\$12,171,537
Range Maximum	\$12,875,999
Range Width	\$704,462
Mean Std. Error	\$1,471.67



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: G3B1 Total (cont'd)

Cell: D85

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$12,171,537
5%	\$12,272,437
10%	\$12,316,853
15%	\$12,352,841
20%	\$12,380,769
25%	\$12,405,776
30%	\$12,428,986
35%	\$12,449,916
40%	\$12,469,335
45%	\$12,487,910
50%	\$12,506,630
55%	\$12,525,542
60%	\$12,544,926
65%	\$12,567,931
70%	\$12,590,773
75%	\$12,615,181
80%	\$12,645,247
85%	\$12,676,972
90%	\$12,717,332
95%	\$12,766,673
100%	\$12,875,999

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Area 4B Soils Remediation		PBS Number: 06		Total Baseline Dollars (Minimum Case):		\$30,248,779	
Evaluator: R. Abitz / F. Miller		Date: 4/11/01		WBS Number: 1.1.G.H			
CAM: JD Chiou		Date: 4/11/01		Control Account Number: G4B1			
Project Task		Risk and/or Opportunity		Potential Impact		Internal Or External Driver	
						Impact Cost \$ (Maximum Case)	
						Risk Probability Level	
						Risk Probability %	
						Risk Level	
						Risk Critical Value	
						Probable Cost \$ (Likeliest Case)	
						Risk Handling Strategy	
Area 4B Site Prep / Excavation		Certification Units Failure		Additional Excavation for 2 Failed CUs. 1/4 footprint of CU at a depth of 2'. This equates to 1200 cy/CU or 2400cy @ \$30/cy		Internal	
Area 4B Site Prep / Excavation		Groundwater infiltration during excavation		Installation and operation of pumps to remove excess water		Internal	
Area 4B Site Prep / Excavation		Remediation activities contaminate/recontaminate areas that originally did not need remediation.		Additional Excavation of 1000cy @ \$30/cy		Internal	
Area 4B Site Prep / Excavation		Extreme Weather Delays		Contractor delayed by weather / muddy conditions for all of April and 1/2 of May. Contractor need to work double shift for a month and a half. Impact to Fluor personnel who will cover second shift at overtime for 1.5 months.		Internal	
Area 4B Site Prep / Excavation		Encountering 10% more debris than was identified from redesign activities.		Additional 3500cy of CAT 2 material requiring excavation and placement at 2x the CAT 1 rate.		Internal	
Area 4B Site Prep / Excavation		No availability for OnSite Organic Treatment		Organically contaminated soil is in the way of excavation causing a month delay while the soil is contained. The delay will be corrected for with double shifting for the month following. Impact to Fluor personnel who will cover second shift at overtime for 1 month.		Internal	

Risk/Opportunity Identification and Analysis Form

Project: Area 4B Soils Remediation		PBS Number: 06		Total Baseline Dollars (Minimum Case):		\$30,248,779				
Evaluator: R. Abitz / F. Miller		Date: 4/11/01		WBS Number: 1.1.G.H						
CAM: JD Chiu		Date: 4/11/01		Control Account Number: G4B1						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Area 4B Title III	Additional Samples needed to bound contamination (chasing) Implementing Only A Part of the Design	DCN generation	Internal	\$8,000	1	60	4	\$4,800	2	Accept Risk
Area 4B Title III	Containers do not meet shipping requirements	Rework of IRDP to accommodate smaller scope. Rework of support plans	Internal	\$15,000	1	70	4	\$10,500	2	Accept Risk
Area 4B Offsite Waste Disposition	Containers do not meet shipping requirements	All containers must be overpacked into ISOs	Internal	\$100,000	2	30	2	\$30,000	2	Accept Risk
Area 4B Offsite Waste Disposition	Discovery of additional material needing containerization.	Containerized volume increases by 10%. Need to purchase additional boxes and ship to disposal facility.	Internal	\$10,000	1	30	3	\$3,000	1	Accept Risk
Area 4B Offsite Waste Disposition	Discovery of additional AWAC material.	AWAC volume increases by 50%. Need to ship additional material. 5000cy @ \$400/cy	Internal	\$2,000,000	3	70	4	\$1,400,000	5	Reduce Risk - Identify An Approach to Address Residual Risk
Area 4B Onsite Waste Treatment	No availability for OnSite Treatment	1000cy of Above WAC Organic Soil goes offsite using Broad Spectrum Contract	Internal	\$14,500,000	5	20	2	\$2,900,000	8	Accept Risk. Develop a detailed Contingency Plan
Area 4B Excavation Control / Certification	Certification Units Failure	2 CUs Fail - Resampling and Analysis / Schedule Delay of 2.5 months	Internal	\$20,000	2	70	4	\$14,000	3	Accept Risk
				Total:			Total:	\$4,502,300		
Area 4B Onsite Waste Treatment	Longer EPA Review Cycle	EPA Takes 30 days longer than the normal 60 days to review documents. Schedule delay of 1 month.	External	\$10,000	1	30	2	\$3,000	1	
Area 4B Excavation Control / Certification	Longer EPA Review Cycle	EPA Takes 30 days longer than the normal 60 days to review documents. Schedule delay of 1 month.	External	\$10,000	1	30	2	\$3,000	1	

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: G4B1 Total

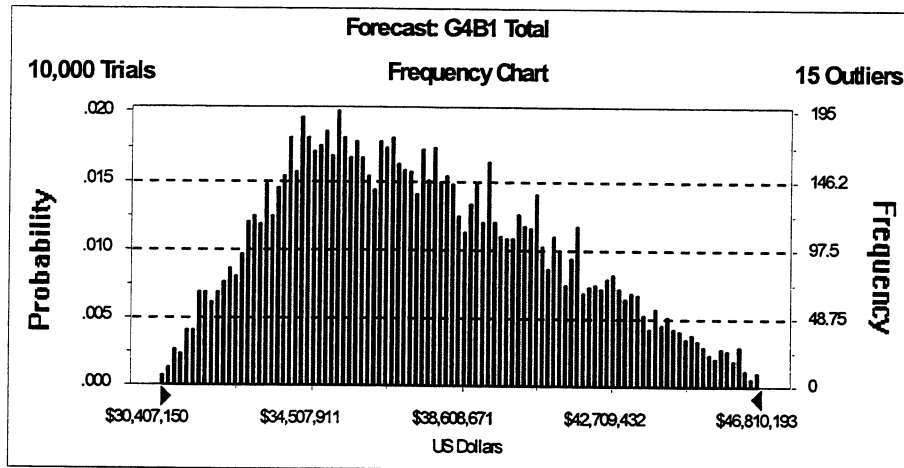
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Summary:

Display Range is from \$30,407,150 to \$46,810,193 US Dollars
 Entire Range is from \$30,326,632 to \$47,257,067 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$36,107

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$37,499,673
Median	\$37,090,677
Mode	---
Standard Deviation	\$3,610,750
Variance	1E+13
Skewness	0.38
Kurtosis	2.38
Coeff. of Variability	0.10
Range Minimum	\$30,326,632
Range Maximum	\$47,257,067
Range Width	\$16,930,434
Mean Std. Error	\$36,107.50



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: G4B1 Total (cont'd)

Cell: D87

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$30,326,632
5%	\$32,232,802
10%	\$33,049,445
15%	\$33,674,192
20%	\$34,186,253
25%	\$34,642,111
30%	\$35,116,872
35%	\$35,561,216
40%	\$36,080,914
45%	\$36,579,432
50%	\$37,090,677
55%	\$37,622,990
60%	\$38,150,251
65%	\$38,783,073
70%	\$39,377,917
75%	\$40,110,324
80%	\$40,805,461
85%	\$41,673,930
90%	\$42,707,856
95%	\$44,023,520
100%	\$47,257,067

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Area 5 Soils Remediation		PBS Number: 06		Total Baseline Dollars (Minimum Case): \$10,564,674						
Evaluator: R. Abitz / F. Miller		WBS Number: 1.1.G.J								
CAM: JD Chiou		Control Account Number: G511								
Project Task		Risk and/or Opportunity		Potential Impact						
Area	Task	Certification Units Failure	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Area 5 Site Prep / Excavation	RT-D008	Certification Units Failure	Internal	\$72,000	2	50	3	\$36,000	2	Accept Risk
Area 5 Site Prep / Excavation		Groundwater infiltration during excavation	Internal	\$10,000	1	10	1	\$1,000	1	Accept Risk
Area 5 Site Prep / Excavation		Remediation activities contaminate/recontaminate areas that originally did not need remediation.	Internal	\$30,000	1	30	2	\$9,000	1	Accept Risk
Area 5 Site Prep / Excavation		Extreme Weather Delays	Internal	\$86,000	1	20	2	\$17,200	1	Accept Risk
Area 5 Site Prep / Excavation		Encountering 10% more debris than was identified from redesign activities.	Internal	\$115,000	2	10	2	\$11,500	2	Accept Risk
Area 5 Title III		Additional Samples needed to bound contamination (chasing)	Internal	\$8,000	1	60	4	\$4,800	2	Accept Risk
Area 5 Title III		Implementing Only A Part of the Design	Internal	\$15,000	1	70	4	\$10,500	2	Accept Risk
Area 5 Offsite Waste Disposition		Containers do not meet shipping requirements	Internal	\$90,000	1	30	2	\$27,000	1	Accept Risk
Area 5 Offsite Waste Disposition		Discovery of additional material needing containerization.	Internal	\$9,000	1	30	3	\$2,700	1	Accept Risk
Area 5 Excavation Control / Certification		Certification Units Failure	Internal	\$20,000	2	50	3	\$10,000	2	Accept Risk
				Total:			Total:	\$129,700		
Area 5 Excavation Control / Certification		Longer EPA Review Cycle	External	\$10,000	1	30	2	\$3,000	1	
		EPA Takes 30 days longer than the normal 60 days to review documents. Schedule delay of 1 month.								

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: G511 Total

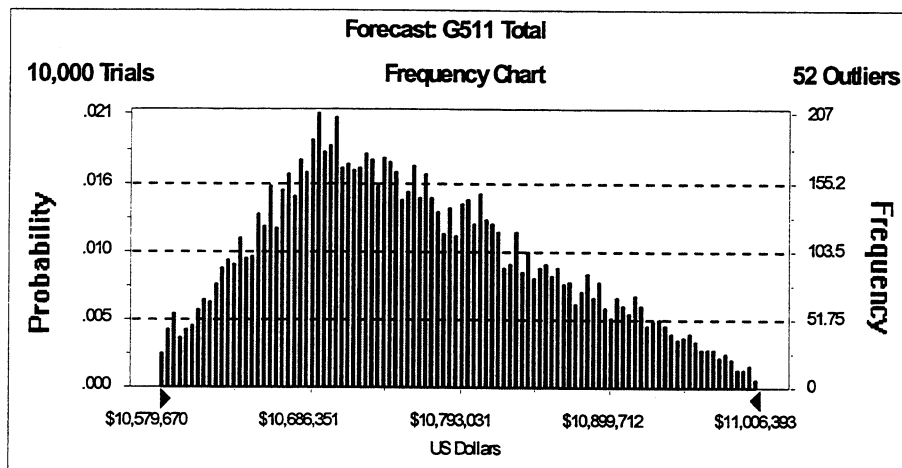
Cell: D89

Summary:

Display Range is from \$10,579,670 to \$11,006,393 US Dollars
 Entire Range is from \$10,565,108 to \$11,016,125 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$959

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$10,759,027
Median	\$10,746,762
Mode	---
Standard Deviation	\$95,880
Variance	\$9,192,938,811
Skewness	0.39
Kurtosis	2.44
Coeff. of Variability	0.01
Range Minimum	\$10,565,108
Range Maximum	\$11,016,125
Range Width	\$451,017
Mean Std. Error	\$958.80



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: G511 Total (cont'd)

Cell: D89

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$10,565,108
5%	\$10,618,182
10%	\$10,640,561
15%	\$10,658,845
20%	\$10,673,210
25%	\$10,686,564
30%	\$10,697,661
35%	\$10,708,971
40%	\$10,721,711
45%	\$10,733,942
50%	\$10,746,762
55%	\$10,760,857
60%	\$10,774,599
65%	\$10,791,271
70%	\$10,807,368
75%	\$10,823,980
80%	\$10,846,094
85%	\$10,869,950
90%	\$10,898,332
95%	\$10,935,250
100%	\$11,016,125

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Area 6 Soils Remediation		PBS Number: 06		Total Baseline Dollars (Minimum Case): \$21,755,409				
Evaluator: T. Crawford / F. Miller		WBS Number: 1.1.G.K						
CAM: JD Chiu		Control Account Number: G611						
Date: 4/11/01		Potential Impact						
Date: 4/11/01		Risk and/or Opportunity						
Project Task	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Area 6 Pre-design	Internal	\$50,000	1	75	4	\$37,500	2	Accept Risk
Additional Samples needed to bound contamination (chasing)								
Certification Units Failure	Internal	\$288,000	2	70	4	\$201,600	3	Accept Risk
Area 6 Site Prep / Excavation	Internal							
RT 5-406								
Groundwater infiltration during excavation	Internal	\$20,000	1	10	1	\$2,000	1	Accept Risk
Remediation activities contaminate/recontaminat e areas that originally did not need remediation.	Internal	\$30,000	1	30	2	\$9,000	1	Accept Risk
Area 6 Site Prep / Excavation	Internal							
Extreme Weather Delays	Internal	\$86,000	1	20	2	\$17,200	1	Accept Risk
Area 6 Site Prep / Excavation	Internal							
Encountering 10% more debris than was identified from pre-design activities.	Internal	\$108,000	2	10	2	\$10,800	2	Accept Risk
Area 6 Site Prep / Excavation	Internal							
Area is up-posted as a Thorium Area	Internal	\$3,620,000	3	20	2	\$724,000	3	Accept Risk
Additional Samples needed to bound contamination (chasing)	Internal	\$8,000	1	60	4	\$4,800	2	Accept Risk
Implementing Only A Part of the Design	Internal	\$15,000	1	70	4	\$10,500	2	Accept Risk
Containers do not meet shipping requirements	Internal	\$113,000	2	30	2	\$33,900	2	Accept Risk
Discovery of additional material needing containerization.	Internal	\$54,000	1	30	3	\$16,200	1	Accept Risk
Area 6 Offsite Waste Disposition	Internal							
AWAC volume increases by 50%. Need to ship additional material. 1125cy @ \$400/cy	Internal	\$450,000	1	60	4	\$270,000	2	Accept Risk
Area 6 Excavation Control / Certification	Internal							
Certification Units Failure	Internal	\$80,000	2	70	4	\$56,000	3	Accept Risk
Total:		\$4,922,000			Total:	\$1,393,500		

Project: Area 6 Soils Remediation		PBS Number: 06		Total Baseline Dollars (Minimum Case):		\$21,755,409	
Evaluator: T. Crawford / F. Miller		WBS Number: 1.1.G.K					
CAM: JD Chiou		Date: 4/11/01					
Date: 4/11/01		Control Account Number: G611					
Project Task		Risk and/or Opportunity		Potential Impact		Internal Or External Driver	
		Impact Cost \$ (Maximum Case)		Risk Probability Level		Risk Probability Level	
		Risk		Risk		Risk	
		Cost \$ (Likeliest Case)		Critical Value		Handling Strategy	
		Risk		Risk		Risk	
		Probability		Probability		Probability	
		Level		Level		Level	
		Case)		Case)		Case)	
Area 6 Predesign		Longer EPA Review Cycle		EPA Takes 30 days longer than the normal 60 days to review documents. Schedule delay of 1 month.		External	
						\$10,000	
Area 6 Title I/II		Longer EPA Review Cycle		EPA Takes 30 days longer than the normal 60 days to review documents. Schedule delay of 1 month.		External	
						\$10,000	
Area 6 Excavation Control / Certification		Longer EPA Review Cycle		EPA Takes 30 days longer than the normal 60 days to review documents. Schedule delay of 1 month.		External	
						\$10,000	
						1	
						30	
						2	
						\$3,000	
						1	
						\$3,000	
						1	

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: G611 Total

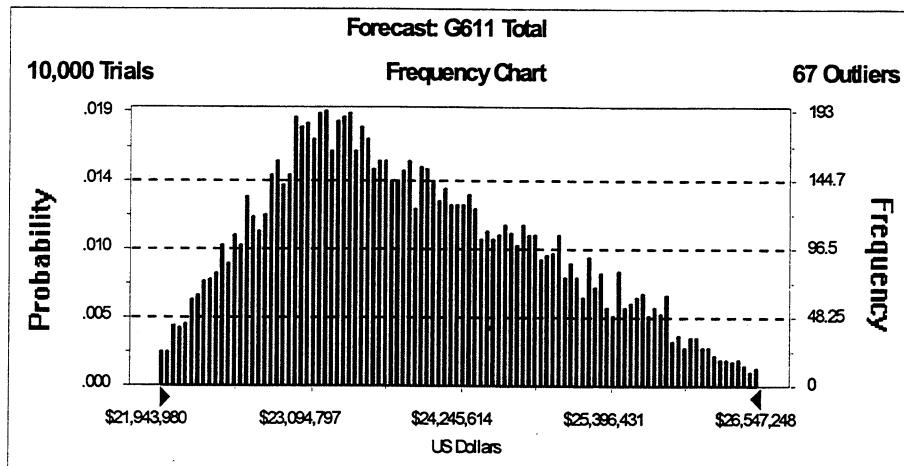
Cell: D91

Summary:

Display Range is from \$21,943,980 to \$26,547,248 US Dollars
 Entire Range is from \$21,778,740 to \$26,624,733 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$10,359

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$23,863,315
Median	\$23,726,044
Mode	---
Standard Deviation	\$1,035,854
Variance	1E+12
Skewness	0.39
Kurtosis	2.41
Coeff. of Variability	0.04
Range Minimum	\$21,778,740
Range Maximum	\$26,624,733
Range Width	\$4,845,994
Mean Std. Error	\$10,358.54



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: G611 Total (cont'd)

Cell: D91

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$21,778,740
5%	\$22,352,569
10%	\$22,595,637
15%	\$22,785,813
20%	\$22,937,960
25%	\$23,067,244
30%	\$23,191,852
35%	\$23,317,627
40%	\$23,440,133
45%	\$23,573,428
50%	\$23,726,044
55%	\$23,877,103
60%	\$24,036,254
65%	\$24,208,263
70%	\$24,389,399
75%	\$24,605,074
80%	\$24,818,553
85%	\$25,066,370
90%	\$25,365,107
95%	\$25,746,454
100%	\$26,624,733

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Area 7 Soils Remediation		PBS Number: 06		Total Baseline Dollars (Minimum Case): \$8,856,839					
Evaluator: T. Crawford / F. Miller		WBS Number: 1.1.G.M							
CAM: JD Chiou		Control Account Number: G711							
Date: 4/11/01		Potential Impact							
Date: 4/11/01		Risk and/or Opportunity							
Project Task	Risk and/or Opportunity	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Area 7 Pre Design	Additional Samples needed to bound contamination (chasing)	Internal	\$40,000	1	75	4	\$30,000	2	Accept Risk
Area 7 Site Prep / Excavation	Certification Units Failure	Internal	\$72,000	2	70	4	\$50,400	3	Accept Risk
Area 7 Site Prep / Excavation	Groundwater infiltration during excavation	Internal	\$20,000	1	20	1	\$4,000	1	Accept Risk
Area 7 Site Prep / Excavation	Remediation activities contaminate/recontaminate areas that originally did not need remediation.	Internal	\$30,000	1	30	2	\$9,000	1	Accept Risk
Area 7 Site Prep / Excavation	Extreme Weather Delays	Internal	\$95,000	1	20	2	\$19,000	1	Accept Risk
Area 7 Site Prep / Excavation	Encountering 10% more debris than was identified from redesign activities.	Internal	\$50,000	1	10	2	\$5,000	1	Accept Risk
Area 7 Site Prep / Excavation	Area is up-posted as a Radium Area	Internal	\$840,000	2	20	2	\$168,000	2	Accept Risk
Area 7 Title III	Additional Samples needed to bound contamination (chasing)	Internal	\$8,000	1	60	4	\$4,800	2	Accept Risk
Area 7 Title III	Implementing Only A Part of the Design	Internal	\$15,000	1	70	4	\$10,500	2	Accept Risk
Area 7 Offsite Waste Disposition	Containers do not meet shipping requirements	Internal	\$80,000	1	30	2	\$27,000	1	Accept Risk
Area 7 Offsite Waste Disposition	Discovery of additional material needing containerization.	Internal	\$9,000	1	30	3	\$2,700	1	Accept Risk
Area 7 Offsite Waste Disposition	AWAC volume increases by 50%. Need to purchase additional boxes and ship to disposal facility.	Internal	\$240,000	1	60	4	\$144,000	2	Accept Risk
Area 7 Excavation Control / Certification	Discovery of additional AWAC material.	Internal	\$20,000	2	70	4	\$14,000	3	Accept Risk
Total:			\$1,529,000				\$488,400		

Area 7 Pre Design	Longer EPA Review Cycle	External	\$10,000	1	30	2	\$3,000	1	
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Risk/Opportunity Identification and Analysis Form

Project: Area 7 Soils Remediation		PBS Number: 06		Total Baseline Dollars (Minimum Case): \$8,856,839				
Evaluator: T. Crawford / F. Miller		WBS Number: 1.1.G.M						
CAM: JD Chiou		Control Account Number: G711						
Date: 4/11/01		Potential Impact						
Risk and/or Opportunity								
Project Task	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Area 7 Title I/II	External	\$10,000	1	30	2	\$3,000	1	
Area 7 Excavation Control / Certification	External	\$10,000	1	30	2	\$3,000	1	

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: G711 Total

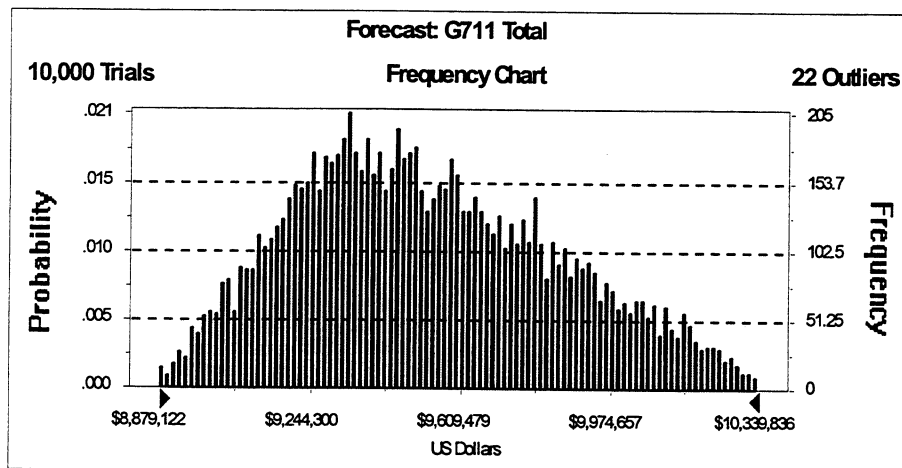
Cell: D93

Summary:

Display Range is from \$8,879,122 to \$10,339,836 US Dollars
 Entire Range is from \$8,859,738 to \$10,369,082 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$3,201

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$9,531,979
Median	\$9,495,369
Mode	---
Standard Deviation	\$320,078
Variance	1E + 11
Skewness	0.33
Kurtosis	2.39
Coeff. of Variability	0.03
Range Minimum	\$8,859,738
Range Maximum	\$10,369,082
Range Width	\$1,509,344
Mean Std. Error	\$3,200.78



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: G711 Total (cont'd)

Cell: D93

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$8,859,738
5%	\$9,050,605
10%	\$9,134,582
15%	\$9,193,996
20%	\$9,242,181
25%	\$9,286,781
30%	\$9,328,060
35%	\$9,367,908
40%	\$9,410,171
45%	\$9,454,529
50%	\$9,495,369
55%	\$9,543,946
60%	\$9,592,051
65%	\$9,642,491
70%	\$9,700,068
75%	\$9,761,149
80%	\$9,825,757
85%	\$9,900,941
90%	\$9,989,466
95%	\$10,112,963
100%	\$10,369,082

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Area 8 Soils Remediation		PBS Number: 06		Total Baseline Dollars (Minimum Case):		\$57,489				
Evaluator: M. Rolles / F. Miller		Date: 4/11/01		WBS Number: 1.1.G.N						
CAM: JD Chiou		Date: 4/11/01		Control Account Number: G811						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Area 8 Excavation Control / Certification	Certification Units Failure	2 CUs Fail - Resampling and Analysis / Schedule Delay of 2.5 months	Internal	\$20,000	2	10	1	\$2,000	1	Accept Risk
Area 8 Excavation Control / Certification	Certification Units Failure	Excavation for 2 Failed CUs. 1/4 footprint of CU at a depth of 2'. This equates to 1200 cy/CU or 2400cy @ \$30/cy	Internal	\$72,000	2	10	1	\$7,200	1	Accept Risk
						Total:		\$92,000		
						Total:		\$9,200		
Area 8 Excavation Control / Certification	Longer EPA Review Cycle	EPA Takes 30 days longer than the normal 60 days to review documents. Schedule delay of 1 month.	External	\$10,000	1	30	2	\$3,000	1	

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: G811 Total

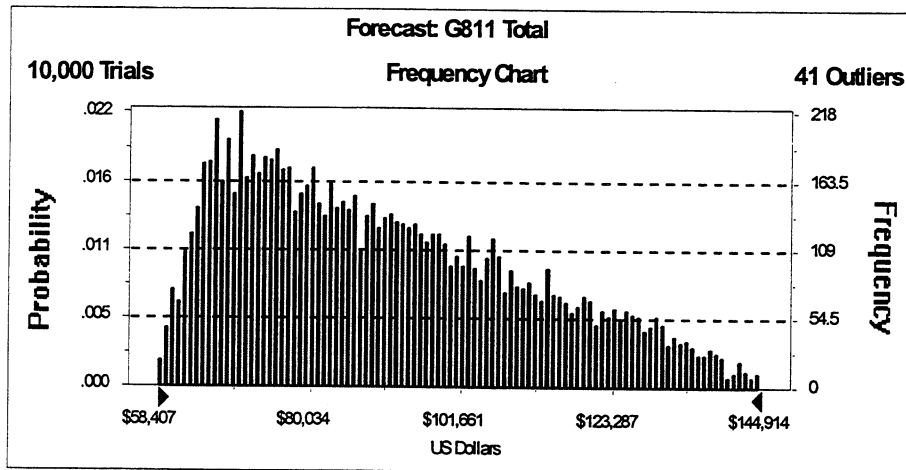
Cell: D95

Summary:

Display Range is from \$58,407 to \$144,914 US Dollars
 Entire Range is from \$57,552 to \$148,526 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$207

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$90,817
Median	\$87,248
Mode	---
Standard Deviation	\$20,716
Variance	\$429,164,946
Skewness	0.56
Kurtosis	2.41
Coeff. of Variability	0.23
Range Minimum	\$57,552
Range Maximum	\$148,526
Range Width	\$90,974
Mean Std. Error	\$207.16



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: G811 Total (cont'd)

Cell: D95

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$57,552
5%	\$63,810
10%	\$66,423
15%	\$68,635
20%	\$71,027
25%	\$73,511
30%	\$75,862
35%	\$78,539
40%	\$81,258
45%	\$84,177
50%	\$87,248
55%	\$90,531
60%	\$93,768
65%	\$97,265
70%	\$101,132
75%	\$105,453
80%	\$109,906
85%	\$115,353
90%	\$122,003
95%	\$129,789
100%	\$148,526

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Area 9 Soils Remediation		PBS Number: 06		Total Baseline Dollars (Minimum Case): \$462,090						
Evaluator: M. Rolles / F. Miller		WBS Number: 1.1.G.P								
CAM: JD Chiou		Date: 4/11/01								
Date: 4/11/01		Control Account Number: G911								
Risk and/or Opportunity		Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Area 9 Phase I Certification	Certification Units Failure	1 CUs Fail - Resampling and Analysis / Schedule Delay of 2.5 months	Internal	\$10,000	2	20	2	\$2,000	2	Accept Risk
Area 9 Phase I Certification	Certification Units Failure	Excavation for Failed CUs. 1/4 footprint of CU at a depth of 2'. This equates to 1200cy @ \$30/cy	Internal	\$37,000	1	20	2	\$7,400	1	Accept Risk
Area 9 Phase I Certification	Certification Units Failure - Excavation	Required to backfill excavated volume with top soil. @ \$5/cy.	Internal	\$6,000	1	20	2	\$1,200	1	Accept Risk
Area 9 Phase II Certification	Certification Units Failure	1 CUs Fail - Resampling and Analysis / Schedule Delay of 2.5 months	Internal	\$10,000	2	20	2	\$2,000	2	Accept Risk
Area 9 Phase II Certification	Certification Units Failure	Excavation for Failed CUs. 1/4 footprint of CU at a depth of 2'. This equates to 1200cy @ \$30/cy	Internal	\$37,000	1	20	2	\$7,400	1	Accept Risk
Area 9 Phase II Certification	Certification Units Failure - Excavation	Required to backfill excavated volume with top soil. @ \$5/cy.	Internal	\$6,000	1	20	2	\$1,200	1	Accept Risk
				Total:	\$106,000		Total:	\$21,200		
Area 9 Phase I Certification	Longer EPA Review Cycle	EPA Takes 30 days longer than the normal 60 days to review documents. Schedule delay of 1 month.	External	\$10,000	1	30	2	\$3,000	1	
Area 9 Phase II Certification	Longer EPA Review Cycle	EPA Takes 30 days longer than the normal 60 days to review documents. Schedule delay of 1 month.	External	\$10,000	1	30	2	\$3,000	1	

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: G911 Total

Cell: D97

Summary:

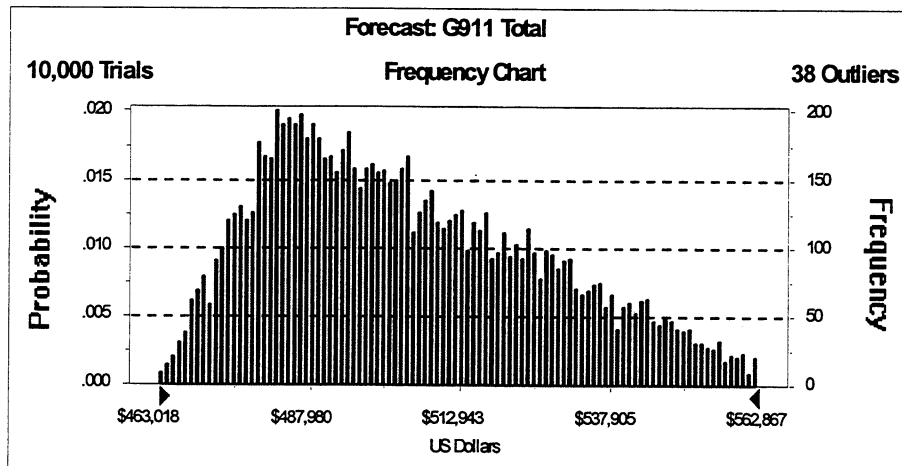
Display Range is from \$463,018 to \$562,867 US Dollars

Entire Range is from \$462,426 to \$567,781 US Dollars

After 10,000 Trials, the Std. Error of the Mean is \$229

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$504,542
Median	\$500,854
Mode	---
Standard Deviation	\$22,900
Variance	\$524,393,065
Skewness	0.51
Kurtosis	2.43
Coeff. of Variability	0.05
Range Minimum	\$462,426
Range Maximum	\$567,781
Range Width	\$105,354
Mean Std. Error	\$229.00



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: G911 Total (cont'd)

Cell: D97

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$462,426
5%	\$473,228
10%	\$477,307
15%	\$480,760
20%	\$483,426
25%	\$486,053
30%	\$488,669
35%	\$491,569
40%	\$494,538
45%	\$497,651
50%	\$500,854
55%	\$504,103
60%	\$507,800
65%	\$511,815
70%	\$516,108
75%	\$520,760
80%	\$525,679
85%	\$531,191
90%	\$538,161
95%	\$547,242
100%	\$567,781

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Area Stream Corridors Solis Remediation		PBS Number: 08		Total Baseline Dollars (Minimum Case): \$2,690,989						
Evaluator: M. Rolles / F. Miller		WBS Number: 1.1.G.Q								
Date: 4/11/01		Control Account Number: GPR1								
Date: 4/11/01		Risk and/or Opportunity		Potential Impact						
Project Task	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy		
Area Stream Corridors Predesign	Additional Samples needed to bound contamination (chasing)		Internal	\$16,000	1	75	4	\$12,000	2	Accept Risk
Area Stream Corridors Site Prep / Excavation	Certification Units Failure		Internal	\$37,000	2	30	2	\$11,100	2	Accept Risk
Area Stream Corridors Site Prep / Excavation	Encountering more debris and unknown material		Internal	\$15,000	1	30	2	\$4,500	1	Accept Risk
Area Stream Corridors Site Prep / Excavation	Extreme Weather Delays		Internal	\$77,000	1	20	2	\$15,400	1	Accept Risk
Area Stream Corridors Site Prep / Excavation	Encountering 10% more debris than was identified from predesign activities.		Internal	\$5,000	1	10	2	\$500	1	Accept Risk
Area Stream Corridors Title III	Additional Samples needed to bound contamination (chasing)		Internal	\$8,000	1	60	4	\$4,800	2	Accept Risk
Area Stream Corridors Excavation Control / Certification	Certification Units Failure		Internal	\$10,000	2	30	2	\$3,000	2	Accept Risk
			Total:	\$168,000			Total:	\$51,300		
Area Stream Corridors Predesign	Longer EPA Review Cycle		External	\$10,000	1	30	2	\$3,000	1	
Area Stream Corridors Title I/II	Longer EPA Review Cycle		External	\$10,000	1	30	2	\$3,000	1	
Area Stream Corridors Excavation Control / Certification	Longer EPA Review Cycle		External	\$10,000	1	30	2	\$3,000	1	

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: GPR1 Total

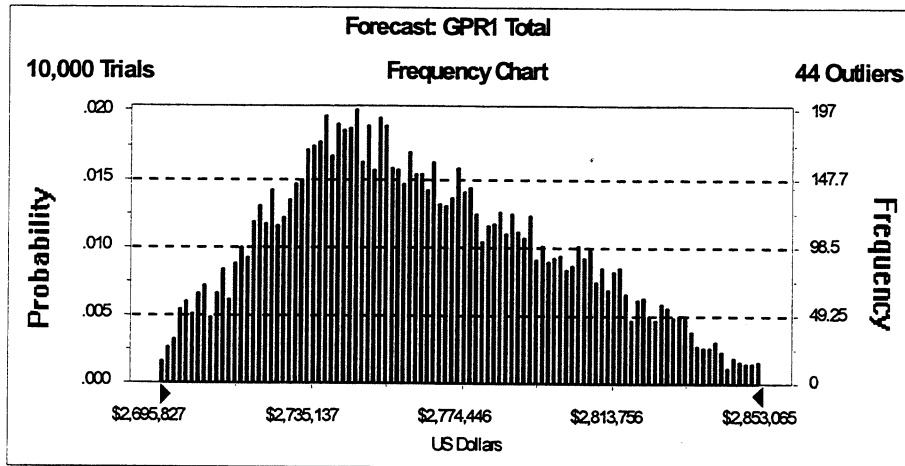
Cell: D99

Summary:

Display Range is from \$2,695,827 to \$2,853,065 US Dollars
Entire Range is from \$2,692,064 to \$2,857,675 US Dollars
After 10,000 Trials, the Std. Error of the Mean is \$352

Statistics:

	Value
Trials	10000
Mean	\$2,763,890
Median	\$2,759,769
Mode	---
Standard Deviation	\$35,223
Variance	\$1,240,633,051
Skewness	0.35
Kurtosis	2.39
Coeff. of Variability	0.01
Range Minimum	\$2,692,064
Range Maximum	\$2,857,675
Range Width	\$165,610
Mean Std. Error	\$352.23



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: GPR1 Total (cont'd)

Cell: D99

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$2,692,064
5%	\$2,711,105
10%	\$2,720,201
15%	\$2,726,635
20%	\$2,732,522
25%	\$2,737,252
30%	\$2,741,646
35%	\$2,745,810
40%	\$2,750,291
45%	\$2,754,700
50%	\$2,759,769
55%	\$2,764,660
60%	\$2,770,130
65%	\$2,775,741
70%	\$2,782,277
75%	\$2,788,980
80%	\$2,796,375
85%	\$2,805,199
90%	\$2,814,685
95%	\$2,827,694
100%	\$2,857,675

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Silos - Project Management		PBS Number: 07		Total Baseline Dollars (Minimum Case):		\$10,457,539				
Evaluator: D.A.Nixon		Date: 03/07/01		WBS Number: 1.1.H.A						
CAM: D.A.Nixon		Date: 03/07/01		Control Account Number: HPM1						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Project Management	The critical path for the Silos Division is delayed and extends the duration for LOE.	12 month schedule delay	Internal	\$2,500,000	3	50	3	\$1,250,000	4	Accept
Readiness and Assessments	Increased project scrutiny due to the nature of the Silos Project	Increased level of internal and external assessments (DNFSB, ISRC, CAT, DOE-HQ, Regulators, Public, etc.) resulting in increased manpower and/or subcontract dollars.	Internal	\$250,000	2	50	3	\$125,000	2	Accept
Total:				\$2,750,000	Total:		\$1,375,000			

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: HPM1 Total

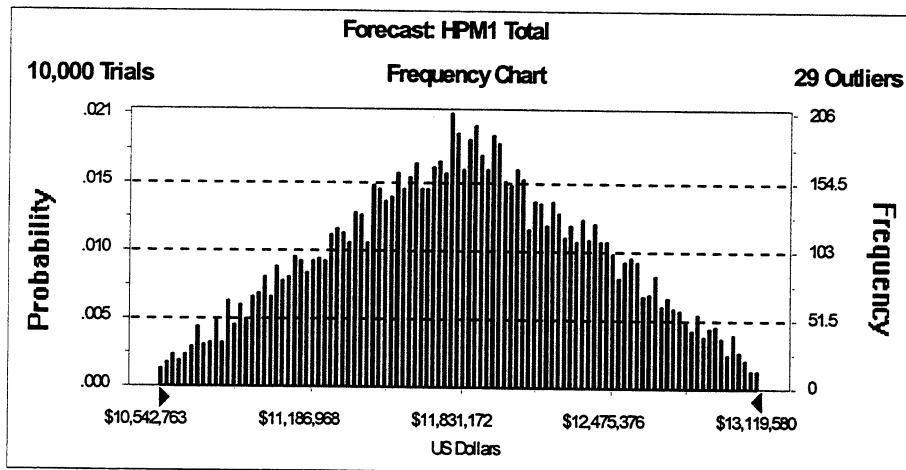
Cell: D102

Summary:

Display Range is from \$10,542,763 to \$13,119,580 US Dollars
 Entire Range is from \$10,484,262 to \$13,183,281 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$5,628

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$11,837,932
Median	\$11,839,307
Mode	---
Standard Deviation	\$562,832
Variance	3E + 11
Skewness	-0.01
Kurtosis	2.39
Coeff. of Variability	0.05
Range Minimum	\$10,484,262
Range Maximum	\$13,183,281
Range Width	\$2,699,019
Mean Std. Error	\$5,628.32



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: HPM1 Total (cont'd)

Cell: D102

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$10,484,262
5%	\$10,892,345
10%	\$11,071,391
15%	\$11,211,951
20%	\$11,332,457
25%	\$11,438,175
30%	\$11,527,188
35%	\$11,611,347
40%	\$11,691,694
45%	\$11,770,952
50%	\$11,839,307
55%	\$11,909,618
60%	\$11,982,247
65%	\$12,060,692
70%	\$12,149,082
75%	\$12,243,462
80%	\$12,351,516
85%	\$12,461,265
90%	\$12,594,714
95%	\$12,777,256
100%	\$13,183,281

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Silos 1&2 Remediation		PBS Number: 07		Baseline Dollars (Minimum Case): \$233,362,043			
Evaluator: North		WBS Number: 1.1.H.D					
CAM: Falman		Date: 08/16/00					
Project Task		Risk and/or Opportunity		Potential Impact			
CO-1	CO-2a	CO-2b, 3, 4a	CO-4b, DE-2 + A43	CO-5	DD-1	DD-2	DD-3
Changes in site utilities, land use, D&D, infrastructure, etc. due to other closure activities and/or failures cause significant changes to facility tie-in work, plant layout, etc.	Site geotechnical conditions are worse than expected, resulting in a significant increase in site prep and foundation work.	Major construction schedule extension due to significant events or problems (project stand-down due to major injury, safety issues, major re-design or re-work, major site events, contractor default, major labor problems/strikes, etc.).	Increased construction costs due to major re-work or re-design of facilities or processes.	FFI-approved field changes are subsequently rejected by EPA or others, resulting in re-work and/or additional labor to justify the FFI interpretation of the requirements.	Schedule delay during remediation facility D&D period due to various issues (subcontractor issues, stand-down due to injury or safety issue, unavailability of site support services and/or facilities, more stringent requirements, etc.).	Increased D&D costs due to higher than expected percentage of equipment being classified as 'excess property' rather than 'abandoned in place' (AIP).	Significant increase in disposal costs due to early closure of OSDF by FFI, such that all remediation facility D&D debris must be shipped off-site for disposal (NTS or other).
Construction costs for utility and infrastructure work increase by 50% over baseline.	Site prep and foundation costs increase by 50% over baseline costs.	Construction schedule extension of 12 months, with additional costs for all groups.	Installed capital costs increase by 25% over baseline.	Installed capital costs increase by 5% over baseline.	Schedule extension of 3 months during D&D period, with additional costs for all groups.	Schedule extension of 2 months during D&D period, with additional costs for all groups.	Assume 30% of D&D debris goes to NTS and the remainder goes to an off-site secure landfill. D&D off-site costs increase 10-fold.
Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal
\$400,000	\$1,000,000	\$38,400,000	\$10,000,000	\$2,000,000	\$1,800,000	\$1,200,000	\$8,000,000
2	3	5	5	3	3	3	4
20%	20%	30%	30%	40%	40%	30%	30%
2	2	2	2	3	3	3	3
\$80,000	\$200,000	\$11,520,000	\$3,000,000	\$800,000	\$770,000	\$360,000	\$1,800,000
2	3	8	8	4	4	4	7
Accept	Accept	Accept	Accept	Accept	Accept	Accept	Accept

Risk/Opportunity Identification and Analysis Form

Project: Silos 1&2 Remediation		WBS Number: 07		Baseline Dollars (Minimum Case): \$239,362,643						
Evaluator: North		Data: 08/16/01		Control Account Number: HS1A						
SAM Fieldman: F07-021		Data: 08/16/01								
Project Task	Risk and/or Opportunity	Potential Impact	External or Internal Driver	Impact Cost \$ (Maximum Case)	Risk Level	Risk Probability, %	Risk Impact Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
DD-4	Increased disposal costs due to higher than expected quantities of remediation facility debris requiring off-site disposal at NTS, rather than placement in the OSDF.	D&D off-site costs increase by 100% over baseline.	Internal	\$600,000	2	50%	2	\$300,000	2	Accept
DD-5	Silo 3 debris does not meet OSDF WAC, such that it must be packaged and shipped to NTS for disposal.	Additional packaging and transport costs for Silo 3 D&D	Internal	\$1,078,000	3	30%	3	\$323,400	2	Accept
DE-1	Schedule delays due to different interpretation of regulations and DOE Orders (e.g. - DOE 413.3), resulting in additional review periods by DOE-HQ and others.	Schedule extension of 3 months during middle and late stages of design for extended review and approval periods.	Internal	\$2,100,000	3	50%	3	\$1,050,000	6	Accept
OM-1a,b,c	Operations startup delay due to site problems, site support staff not available or delays in AWR completion.	Operations schedule delay of 6 months, with additional costs for all groups.	Internal	\$15,000,000	5	30%	4	\$4,500,000	11	Reduce or Mitigate
OM-2a	Increased ODCs due to higher than expected chemical usage and/or price.	Chemical costs increase by 50% over baseline.	Internal	\$2,200,000	3	30%	3	\$680,000	4	Accept
OM-2b	Increased ODCs due to higher than expected carbon usage and/or price.	Carbon costs increase by 50% over baseline.	Internal	\$250,000	2	30%	3	\$75,000	2	Accept
OM-2c	Increased ODCs due to higher than expected treatment costs for water discharged to AWWT (larger quantity of water and/or more extensive treatment).	Water treatment costs increase by 100% over baseline.	Internal	\$300,000	2	50%	3	\$150,000	2	Accept
OM-2d	Increased ODCs due to higher than expected consumption and/or price of spare parts, consumables, supplies, etc.	Spare parts, consumables, supplies cost increase by 50% over baseline.	Internal	\$2,000,000	3	40%	3	\$800,000	4	Accept
OM-2e	Increased ODCs due to sampling and analysis issues (higher than expected sampling/analytical requirements, revised approach for procuring analytical services, need for faster turnaround times, etc.).	Analytical costs increase by 50% over baseline.	Internal	\$500,000	2	60%	4	\$300,000	3	Accept
OM-3a, b, c	Major operations schedule extension due to accident or mishap during transportation of waste containers to NTS.	Operations schedule extension of 12 months, with additional costs for all groups.	Internal	\$30,000,000	5	30%	2	\$9,000,000	8	Accept

Risk/Opportunity Identification and Analysis Form

Project: Silos 1&2 Remediation		PBS Number: 07		Baseline Dollars (Minimum Case): \$233,362,843						
Evaluator: North		WBS Number: 1.1.H.D								
CAM: F0421		Date: 08/16/01								
Control Account Number: H51A										
Risk Task	Risk and/or Opportunity	Potential Impact	Internal or External Driver	Impact Cost \$ (Maximum Case)	Risk Level	Risk Probability, %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
OM-3d	Operations cost increase due to lower than expected waste loadings.	Operations labor, supplies, and consumables costs increase. Assume costs equivalent to 2 month schedule extension.	Internal	\$5,000,000	4	60%	4	\$5,000,000	8	Accept
OM-4b	Increased labor costs due to added inspection, reporting, or procedural requirements from internal audits/assessments.	O&M staffing increase of 5% over baseline during SOT, ORR, and Operations periods.	Internal	\$2,200,000	3	20%	2	\$440,000	3	Accept
OM-6	Severe damage to facility control system from lightning or power supply anomaly, causing total shutdown of operations to complete repairs.	Operations schedule extension of 3 months to repair/replace affected components, with additional costs for all groups.	Internal	\$7,600,000	4	10%	1	\$760,000	3	Accept
OM-7	Environmental release of Radon or other hazardous material.	Fines and/or additional efforts and costs associated with NOV's, etc.	Internal	\$500,000	2	10%	1	\$50,000	1	Accept
OM-8a	Major operations schedule extension due to significant events or process problems (project stand-down due to major injury, safety issues, releases to environment, major process re-design, etc.)	Operations schedule extension of 12 months, with additional costs for all groups.	Internal	\$30,000,000	5	20%	2	\$6,000,000	8	Accept
OM-8b	Significant events or process problems result in major changes to facility or equipment.	20% increase in installed capital costs for design, construction, and testing of major process modifications. [Note: schedule delay captured in item OM-8a.]	Internal	\$8,000,000	4	20%	2	\$1,600,000	5	Accept
WA-1	Increased ODCs due to increases in unit costs for transportation, disposal, or containers.	Packaging, transportation, and disposal costs increase by 10% over baseline.	Internal	\$4,690,000	3	30%	3	\$1,407,000	4	Accept
WA-2	Increased costs due to inability to find approved alternate disposal option for off-spec (failed TCLP) containers of treated K-65 material.	10% increase in installed capital costs associated with design, construction, and operation of a small facility on-site to re-work the failed material.	Internal	\$4,000,000	3	30%	3	\$1,200,000	4	Accept
WA-3	Increased ODCs due to lower than expected waste loadings.	Packaging, transportation, and disposal costs increase by 10%.	Internal	\$4,690,000	3	30%	3	\$1,407,000	4	Accept
WA-4a	Increased ODCs due to higher than expected number of off-spec containers (failed TCLP) of treated K-65 material, which must be sent for alternate, higher cost, disposal.	Reject (TCLP) container percentage increases from 1% (baseline) to 5%, with associated incremental disposal cost increase (10% increase in K-65 wastes disposal costs).	Internal	\$4,690,000	3	20%	2	\$938,000	3	Accept

Risk/Opportunity Identification and Analysis Form

Project: Silos 1&2 Remediation		PBS Number: 07		Baseline Dollars (Minimum Case): \$233,362,643					
Evaluator: North		WBS Number: 1.1.H.D							
CAM Fallman		Control Account Number: HS1A							
Date: 08/16/01		Date: 08/16/01							
Risk and/or Opportunity	Potential Impact	Internal or External Driver	Impact Cost \$ (Maximum Case)	Risk Level	Risk Probability, %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
WA-4b	Increased ODCs due to higher than expected number of off-spec containers (excessive rad levels) of treated K-65 material, which require additional shielding for transport and handling (on-site and at NTS).	Internal	\$800,000	2	60%	4	\$480,000	3	Accept
WA-5	Increased ODCs due to higher than expected quantities of secondary waste, some of which requires off-site disposal at NTS.	Internal	\$2,000,000	3	60%	4	\$1,200,000	5	Accept
			Total: \$185,898,000			Total:	\$64,110,400		
EX-1	Major operations schedule extension due to significant external transportation and/or disposal problems (NTS shutdown, public opposition en route or at NTS, etc.).	External	\$20,000,000	5	30%	3	\$6,000,000	10	
EX-2	Increased labor costs due to added inspection/reporting or procedural requirements from External audits/assessments.	External	\$4,400,000	3	50%	4	\$2,200,000	5	
EX-3	Significant increase in facility costs due to added requirements from review by External groups (DNFSB, CAT, EPA, DOE, HQ, FCAB, etc.).	External	\$10,000,000	5	50%	3	\$5,000,000	10	
EX-4	Increased design labor costs due to numerous changes and re-work (External sources).	External	\$12,800,000	5	50%	3	\$6,450,000	10	
EX-5	Significant increase in disposal costs due to mandated early closure of OSDF by EPA or DOE, such that all D&D debris must be shipped off-site for disposal (NTS or other).	External	\$6,000,000	4	40%	3	\$2,400,000	7	
PLUS-1	Envirocare modifies permits to allow disposal of K-65 material, reducing risks.	External	\$9,880,000		20%		\$1,876,000		

Risk/Opportunity Identification and Analysis Form

Project: Silos 1&2 Remediation		PBS Number: 07		Baseline Dollars (Minimum Case): \$239,362,843						
Evaluator: North		WBS Number: 1.1.H.D								
CAM: Palmer		Control Account Number: HS1A								
Date: 08/16/01		Date: 08/16/01								
Project Task	Risk and/or Opportunity	Potential Impact	Internal or External Driver	Impact Cost \$ (Maximum Case)	Risk Level	Risk Probability, %	Risk Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
PLUS-2	Facility/process simplification during design development provides design and capital cost reductions.	Design labor and installed capital costs decrease by 20%.	Internal	\$13,180,000		20%		\$2,832,000		
PLUS-3	Higher than expected operating availability shortens operations period.	Operations schedule reduced by 2 months, with associated cost decreases for all groups.	Internal	\$5,000,000		20%		\$1,000,000		
PLUS-4	Review of operations labor requirements allows significant reductions in labor force.	O&M labor costs decrease by 30% from baseline.	Internal	\$13,200,000		20%		\$2,640,000		

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: HS1A Total

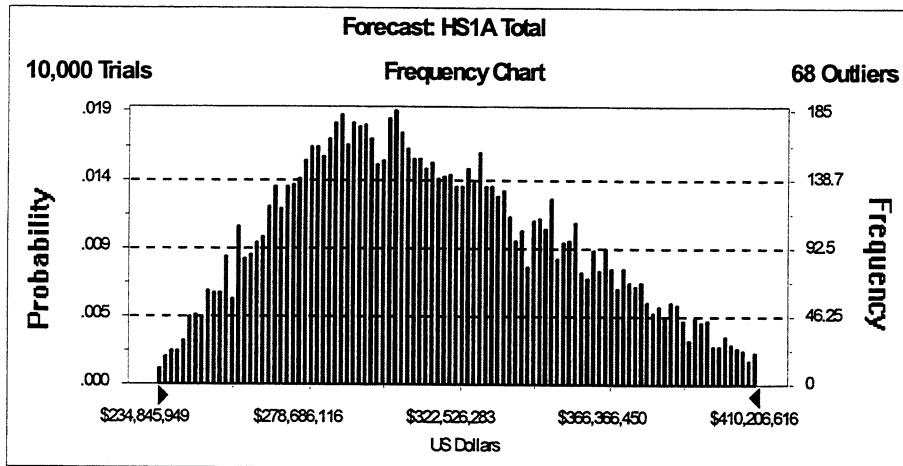
Cell: D110

Summary:

Display Range is from \$234,845,949 to \$410,206,616 US Dollars
Entire Range is from \$234,683,768 to \$422,035,403 US Dollars
After 10,000 Trials, the Std. Error of the Mean is \$397,927

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$314,628,420
Median	\$310,047,687
Mode	---
Standard Deviation	\$39,792,696
Variance	2E + 15
Skewness	0.35
Kurtosis	2.41
Coeff. of Variability	0.13
Range Minimum	\$234,683,768
Range Maximum	\$422,035,403
Range Width	\$187,351,635
Mean Std. Error	\$397,926.96



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: HS1A Total (cont'd)

Cell: D110

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$234,683,768
5%	\$255,208,443
10%	\$265,255,150
15%	\$272,462,555
20%	\$278,642,952
25%	\$284,117,979
30%	\$289,157,216
35%	\$294,217,499
40%	\$299,514,006
45%	\$304,669,523
50%	\$310,047,687
55%	\$315,936,183
60%	\$322,090,937
65%	\$328,485,944
70%	\$334,919,846
75%	\$343,011,070
80%	\$351,062,810
85%	\$360,563,533
90%	\$371,499,280
95%	\$386,506,273
100%	\$422,035,403

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Silo 3		PBS Number: 07		Total Baseline Dollars (Minimum Case): \$		\$39,250,146	
Evaluator: Karen Wintz		Date: March 21, 2001		WBS Number: 1.1.H.B			
CAM: Karen Wintz		Date: March 21, 2001		Control Account Number: HS3A			

Project Task	Risk and/or Opportunity	Potential Impact	Internal or External	Impact Cost \$ (Maximum)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest)	Risk Critical Value	Risk Handling Strategy
Construction	Significant events or problems (project stand-down due to major injury, safety issues, major site events, contractor default, etc.).	Major construction schedule extension of 12 months.	Internal	\$3,780,000	5	10	2	\$378,000	8	Accept. Tie ins determined by previous contract. Little likelihood of change under facility use group changes.
Construction	Major re-work or re-design of facilities or processes after design complete due to changed design basis or functional requirements to support facility uses by other projects.	Installed capital costs increase by 25% over baseline. Construction schedule slip 40%.	Internal	\$2,130,000	3	40	4	\$852,000	5	Avoid - Other uses must address risk in their scope. Combined risk should justify implementing change or not.
Construction	Minor construction schedule extension due to various issues (inclement weather, delays in equipment deliveries, minor re-work and/or replacement of damaged or unacceptable equipment, minor labor problems, etc.).	Construction schedule extension of 3 months, with additional costs for all groups.	Internal	\$645,000	3	60	4	\$387,000	5	Accept.
Construction	Vendors can't meet quality requirements on current schedule. Example: trackhoe PG3.	Increases cost of equipment and delays schedule.	Internal	\$500,000	3	60	4	\$300,000	5	Reduce - Establish PG requirements early and procure these items early. Do not be overly conservative with PG/QL assignments.
Construction	Fluor Farnald-approved DCNs are subsequently disapproved by EPA or others, resulting in re-work and/or additional labor to justify FF interpretation of the requirements.	Installed capital costs increase by 5% over baseline. Construction schedule slips 10%.	Internal	\$483,000	2	80	5	\$386,400	3	Reduce - Request equitable adjustment.
Construction	Self perform with minimally experienced subcontractors due to small business set asides.	Delays in construction of 2 months and increased cost of FF management.	Internal	\$430,000	2	40	3	\$172,000	2	Reduce - Hire FEMP-experienced small businesses to meet set aside requirements.
Construction	Insufficient schedule float between award and mobilization and/or lack of construction crafts causes delay, includes training.	1 month schedule delay	Internal	\$215,000	2	30	2	\$84,500	2	Reduce - Ensure sufficient float between award and mobilization. Require 30-day pre-job meeting.
Construction	Cannot use ISA pad for containment foundation.	Increase in site prep costs. Additional concrete cost added for new foundation.	Internal	\$600,000	3	30	3	\$180,000	4	Accept
Construction	Long lead items delayed.	2 month construction schedule delay.	Internal	\$430,000	2	50	3	\$215,000	2	Reduce by issuing specs as early as possible.
Construction	Changed site conditions encountered during construction.	Cost of construction increases 10%.	Internal	\$280,000	2	40	3	\$112,000	2	Accept.
Construction	Anomalies and/or contamination are discovered during site prep work, resulting in significant delays while remediation work is performed.	Construction schedule extension of 2 months.	Internal	\$430,000	2	10	1	\$43,000	2	Accept.
Design	Schedule delays due to different interpretation of regulations and DOE Orders (e.g., DOE 413.3), resulting in additional review periods by DOE-HQ and others.	Schedule extension of 4 months during middle and late stages of design for extended review and approval periods.	Internal	\$1,000,000	3	90	5	\$900,000	6	Accept

Risk/Opportunity Identification and Analysis Form

Project: Silo 3		PBS Number: 07		Total Baseline Dollars (Minimum Case): \$		\$39,250,146				
Evaluator: Karen Wintz		Date: March 21, 2001		WBS Number: 1.1.H.B						
CAM: Karen Wintz		Date: March 21, 2001		Control Account Number: HS3A						
Project Task	Risk and/or Opportunity	Potential Impact	Internal or External	Impact Cost \$ (Maximum)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest)	Risk Critical Value	Risk Handling Strategy
Design	Performance level/QL increase procurement costs.	20% increase on cost of equipment and containers.	Internal	\$965,000	3	40	4	\$388,000	5	Reduce - Ensure QL/PG requirements meet minimal levels only. Eliminate risk factor in PG ratings.
Design	Difficulty obtaining approval to cut silo drives new requirements and increases design effort.	Increased design and construction costs. Extension to design schedule.	Internal	\$1,042,000	3	80	5	\$833,600	6	Reduce - Involve likely dissenters in upfront planning and design. Start this activity ASAP.
Design	Use of supersaks as a new container on-site results in extensive review and inspection process.	Design cost increased 5% and container cost increased 50%.	Internal	\$2,738,000	3	70	4	\$1,916,600	5	Reduce - through management support and acceptance of new approaches and resultant risk.
Design	Significant increase in facility costs due to results of design data development work, design maturation, added requirements from safety/hazard reviews, etc.	Facility capital cost increase 25% above baseline estimate.	Internal	\$1,210,000	3	70	4	\$847,000	5	Reduce - Manage change control.
Design	Increased design labor costs due to numerous changes and re-work (internal sources).	Engineering costs increase 50% over original baseline. Schedule delayed 4 months.	Internal	\$1,350,000	3	30	3	\$405,000	4	Accept.
Design	Airborne issues. Data from Design Data Development Branch will be used to change design approach. R-107-225	Design change required. Schedule delay 2 months.	Internal	\$500,000	2	30	3	\$150,000	3	Reduce - Obtain data from Design Data Development Branch as soon as possible. Prioritize airborne testing.
Design	EPA major comments.	Construction and design delayed due to rework.	Internal	\$500,000	3	30	2	\$150,000	3	Reduce by communicating early and often with EPAs.
Design	Staffing not available or experienced with this type of work. Schedule delays.	2 month schedule extension.	Internal	\$500,000	2	30	2	\$150,000	2	Reduce - Plan design staffing early.
Design	Must contain entire Silos due to an accident evaluation.	Additional design, construction and equipment cost.	Internal	\$350,000	2	40	3	\$140,000	2	Accept.
Design	Changes in site utilities, land use, D&D, infrastructure, etc. cause significant changes in facility tie-ins, layout, etc.	Construction costs for utility and infrastructure work increase by 50% over baseline.	Internal	\$100,000	2	10	2	\$10,000	2	Accept - Tie ins determined by previous contract. Little likelihood of change under facility use group changes.
Design/construction/operation	Extensive changes in site procedures driven by Fluor Fernald drive new administrative and technical requirements.	Project cost increases 30%, schedule increases 1 year.	Internal	\$6,250,000	4	50	3	\$3,125,000	7	Reduce - Streamline procedures, do not increase.
Design/construction/operation	Retrieval operations categorized as a new facility activity rather than a safe shutdown-type activity.	Additional engineering controls required.	Internal	\$300,000	2	60	4	\$180,000	3	Accept.
NMD Operations	Material delivery rate less than anticipated.	Extended production schedule by 1 hr.	Internal	\$2,000,000	3	60	4	\$1,600,000	6	Reduce.
NMD Operations	Uranium Fire due to Uranium metal received and processed.	Equipment damage/process shutdown - 8 hr extension due to equipment repair/retest and corrective actions.	Internal	\$8,000,000	4	60	3	\$4,000,000	7	Avoid.

Risk/Opportunity Identification and Analysis Form

Project: Silo 3		PBS Number: 07		Total Baseline Dollars (Minimum Case): \$		\$39,250,146	
Evaluator: Karen Wintz		Date: March 21, 2001		WBS Number: 1.1.H.B			
CAM: Karen Wintz		Date: March 21, 2001		Control Account Number: HS3A			

Project Task	Risk and/or Opportunity	Potential Impact	Internal or External	Impact Cost \$ (Maximum)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest)	Risk Critical Value	Risk Handling Strategy
NMD-Operations	Excessive maintenance required on process due to material and equipment inoperability.	4-month extension due to service of other non-maintenance issues and increase in internal costs.	Internal	\$4,000,000	3	60	4	\$2,400,000	6	Reduce.
NMD-Operations	Violation of criticality limits due to characterization or labeling of other personnel error.	6-month extension due to investigation, corrective action, and repeat.	Internal	\$6,000,000	4	20	3	\$1,800,000	7	Avoid.
NMD-Operations	Soft not available for blending.	3-month extension due to schedule.	Internal	\$3,000,000	3	30	3	\$900,000	4	Reduce.
NMD-Operations	WPRAP unable to receive material once blended.	3-month extension due to schedule.	Internal	\$3,000,000	3	40	3	\$1,200,000	4	Reduce.
NMD-Operations	Material control and accountability issues.	2-month delay while issues get worked.	Internal	\$2,000,000	3	60	4	\$1,000,000	6	Reduce.
Operations	More material in silo than estimated.	Schedule extended and costs increase proportionally.	Internal	\$871,050	3	10	2	\$87,105	3	Accept.
Operations	No gondolas available due to WPRAP operating at capacity - known at start of operations design.	Must lease 14 gondola cars from CSX, get supersacks approved as IP. 2 (this cost covered elsewhere), 6 month schedule delay.	Internal	\$2,420,000	4	50	4	\$1,210,000	8	Avoid - Make arrangements with CSX in advance or slow down WPRAP operations during this time period.
Operations	RMRS fails to provide Envirobond after design.	Stabilization formula must be redeveloped with other chemical. Schedule delay and chemical procurement costs.	Internal	\$3,100,000	3	90	5	\$2,790,000	6	Reduce - Develop alternate treatment formulation to eliminate schedule delay and incur chemical costs only.
Operations	Operations schedule extension due to labor issues (strikes, unavailability of replacements due to turnover of rad exposure limits, reduced productivity at end of project, etc.).	Operations schedule extended 6 months.	Internal	\$2,268,000	4	20	2	\$453,600	5	Accept.
Operations	Rail operator availability to move cars (due to sharing with WPRAP) delays loading operations.	Overtime to load containers increased 10%.	Internal	\$480,000	2	70	4	\$336,000	3	Reduce - through advance planning.
Operations	PHAR approval same as PHAR.	Schedule slip delays startup or drives major changes in operations plans - 2 months.	Internal	\$430,000	2	70	4	\$301,000	3	Reduce - Find methods to involve OFO early.
Operations	Coordination with mockup.	Must move pipe rack.	Internal	\$300,000	2	50	4	\$150,000	3	Reduce - Coordinate with AWR.
Operations	Conveyors extend into Silos/Downtime.	Operations schedule delay 1 month.	Internal	\$378,000	2	50	3	\$189,000	2	Reduce - through upfront planning.
Operations	Remote operation of excavator, visibility problems in silo, difficult maintenance, or difficulty fueling causes slow productivity.	Reduced productivity by 50%, with resultant increase in operations schedule and costs.	Internal	\$2,400,000	4	60	4	\$1,440,000	8	Reduce - Oversize excavator bucket to allow minimal ops w/o loss in throughput. Obtain extended warranty and vendor support, obtain service contract, lease-to-own, procure in advance for break-in period while not in contamination zone.

Risk/Opportunity Identification and Analysis Form

Project: Silo 3		PBS Number: 07		Total Baseline Dollars (Minimum Case): \$		\$39,250,148	
Evaluator: Karen Wintz		Date: March 21, 2001		WBS Number: 1.1.H.B			
CAM: Karen Wintz		Date: March 21, 2001		Control Account Number: HS3A			

Project Task	Risk and/or Opportunity	Potential Impact	Internal or External	Impact Cost \$ (Maximum)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest)	Risk Critical Value	Risk Handling Strategy
Operations	Compromised silo integrity after cutting of opening.	Must expedite retrieval. Worst case silo failure resulting in lines and environmental release. Time to cut extended by 1 month.	Internal	\$2,000,000	5	1	1	\$20,000	5	Reduce through engineering design and safety evaluation process.
Operations	Difficulty in cutting silo due to material behind wall.		Internal	\$378,000	2	60	4	\$226,800	3	Reduce - Subcontract to specialty vendor and/or perform mock up on Silo 4 if cost beneficial.
Operations	Environmental release of Radon or other hazardous material.	Fines and/or additional efforts and costs associated with NOV's, etc.	Internal	\$2,000,000	3	10	1	\$200,000	3	Reduce - Contingency plan in RD Pkg.
Operations	Severe damage to facility control system due to lightning or power supply anomaly causes total shutdown of operations to complete repairs.	Operations schedule extended 3 months to repair/replace affected components.	Internal	\$1,134,000	3	5	1	\$56,700	2	Accept.
Operations	Chemical hazard found in Silo/Rad.	New controls and monitoring.	Internal	\$100,000	2	10	1	\$10,000	1	Accept.
Operations	Bag breaks during filling.	Shut down operations, clean up spill - 1 week.	Internal	\$95,000	2	10	1	\$9,500	1	Accept.
Operations	Increased ODCs due to sampling and analysis issues (higher than expected sampling/analytical requirements, revised approach for procuring analytical services, need DOE faster turnaround times, etc.).	Increased sampling costs of 30% over baseline.	Internal	\$21,000	1	20	2	\$4,200	1	Accept.
Operations	Heel removal slow.	1 month additional operations.	Internal	\$378,000	2	90	5	\$340,200	5	Reduce - Plan reasonable heel removal options in advance.
Operations	Added inspection, reporting, or procedural requirements from internal audits/assessments.	Increased labor cost of 5% of operations, plus 1 FTE to administer.	Internal	\$308,000	2	70	4	\$215,600	3	Avoid.
Operations	Increased labor costs due to inadequate estimate of overtime required for operations.	Increased labor cost for overtime premium from 40 hr/week to 50 hr/week.	Internal	\$1,800,000	3	50	3	\$900,000	4	Accept.
Operations	Increased labor costs due to inadequate staffing estimates.	O&M staffing increase of 10% over baseline during training, SOT, ORR, and operations period.	Internal	\$740,000	2	70	4	\$518,000	3	Accept.
Operations	Increased ODCs due to higher than expected chemical usage and/or price.	Chemical costs increase 50% over baseline cost.	Internal	\$100,000	2	30	3	\$30,000	2	Accept.
Operations	Increased ODCs due to higher than expected consumption and/or price of spare parts, consumables, supplies, etc.	Spare parts increase 60% over baseline.	Internal	\$670,000	3	40	3	\$268,000	4	Reduce - through planning.
Operations	Must operate 2 shifts to meet WPRAP completion schedule due to prior project delays.	Additional crew required from training through operations completion.	Internal	\$3,537,000	3	30	3	\$1,061,100	4	Reduce - Maintain schedule.
Operations	Bag breaks during loading into rail car.	Contamination outside and potential environmental release above RD, and 1 month shutdown.	Internal	\$378,000	2	30	3	\$113,400	2	Reduce - Lift plan and container inspections.
Operations	Increased cost to train new replacement workers.	5% increase in operations labor from baseline.	Internal	\$240,000	2	40	3	\$96,000	2	Accept.

Risk/Opportunity Identification and Analysis Form

Project: Silo 3		PBS Number: 07		Total Baseline Dollars (Minimum Case): \$		\$39,250,146	
Evaluator: Karen Wintz		Date: March 21, 2001		WBS Number: 1.1.H.B			
CAM: Karen Wintz		Date: March 21, 2001		Control Account Number: HS3A			

Project Task	Risk and/or Opportunity	Potential Impact	Internal or External	Impact Cost \$ (Maximum)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest)	Risk Critical Value	Risk Handling Strategy
Operations	Increases ODCs due to higher than expected quantities of secondary waste, some of which requires off-site disposal.	Secondary waste costs increase 10% over baseline estimate.	Internal	\$20,000	2	60	4	\$12,000	5	Accept.
Operations	Material loaded into gondolas fails TCLP and must be re-treated.	1 month schedule extension to re-offerate re-treatment.	Internal	\$375,000	2	40	2	\$37,800	2	Reduce - Develop robust treatment formulation.
Operations	Material loaded into gondolas fails TCLP and must be re-treated off-site.	Cost to ship off-site and treat material.	Internal	\$320,400	2	10	2	\$32,040	2	Reduce - Develop robust treatment formulation.
Operations	Major operations schedule extension due to accident or mishap during transportation to Envirocare.	6 month delay in project to switch to truck transportation.	Internal	\$2,268,000	4	1	1	\$22,680	3	Reduce - Ensure containers can be shipped by truck to shorten shutdown.
Operations	Major operations schedule extension due to significant events or process problems (project shutdown due to major injury, safety issues, releases to environment, major process re-design, equipment failure etc.).	Operations schedule extended 12 months.	Internal	\$6,000,000	5	20	2	\$1,200,000	3	Accept.
Operations	Manpower shortage for operations planning due to AWR OPS startup.	Startup schedule extended by 4 months.	Internal	\$1,500,000	3	70	5	\$1,050,000	6	Reduce - Obtain additional resources in advance to prevent schedule delay if problem becomes evident.
Operations	Delay in obtaining maintenance personnel due to sharing with AWR.	Operating duration increase of 5%.	Internal	\$240,000	2	50	3	\$120,000	2	Reduce through advance planning, extended equipment warranties for service through vendor, vendor technical support or lease-to-own arrangements.
Operations	Minor operations schedule extension due to minor process problems (excessive waste variability, airborne problems, plugging, higher maintenance, lower availability, unavailability of key spare parts, normal startup problems, etc.).	Operations schedule extended 2 months.	Internal	\$786,000	2	80	5	\$604,800	3	Reduce - Consider risk in design basis.
Project Management	Extensive internal audits cause project to increase documentation labor.	Project cost increases 10%.	Internal	\$2,500,000	3	90	5	\$2,250,000	6	Reduce - Minimize audits and focus scope of audits.
Shipping	DOT exemption on gondola fails and containers cannot be approved as IP-2.	Must design around new container. 6 month schedule impact and major design change. Box container costs added.	Internal	\$2,886,000	4	30	3	\$865,800	4	Reduce - Obtain approval of supersaks as IP-2 in advance. Incur cost of approval.
Shipping	CSX raises cost of shipping for modifying rail tender.	Cost increase for shipping of 30%.	Internal	\$280,000	2	70	4	\$196,000	3	Reduce - Try to negotiate no cost change.
Shipping	DOT exemption on Gondola fails.	Must get supersaks approved as IP-2. Additional labor for approval process.	Internal	\$100,000	2	50	3	\$50,000	3	Accept.

Risk/Opportunity Identification and Analysis Form

Project: Silo 3		PBS Number: 07		Total Baseline Dollars (Minimum Case): \$		\$39,250,146				
Evaluator: Karen Wintz		Date: March 21, 2001		WBS Number: 1.1.H.B						
CAM: Karen Wintz		Date: March 21, 2001		Control Account Number: HS3A						
Project Task	Risk and/or Opportunity	Potential Impact	Internal or External	Impact Cost \$ (Maximum)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest)	Risk Critical Value	Risk Handling Strategy
Shipping	No gondolas available due to WPRAP operating at capacity - known during design.	Must lease 14 gondola cars from CSX, get 2 (this cost covered elsewhere), get new rail cars approved for use at FEMP.	Internal	\$150,000	2	70	4	\$105,000	5	Accept.
Shipping	Silo 3 shipping schedule extends beyond WPRAP shipping operation schedule.	Silo 3 must assume costs of administering and maintaining rail shipment program.	Internal	\$945,000	2	10	1	\$94,500	1	Accept.
Shipping	Rail tender mod fails - CSX will not grant.	Must ship by truck.	Internal	\$3,000,000	4	20	1	\$600,000	3	Accept.
Shutdown	Ability to decon/clean Silo to OSDF limits.	Additional 2 months operations to decon silo.	Internal	\$756,000	2	50	4	\$378,000	3	Reduce - Plan ahead with multiple decon approaches.
Startup	Operations startup delay and/or schedule extension due to site problems (AWWT outages, utility outages, site stand-down due to accident/release, etc.).	Operations schedule extension of 6 months, with additional costs for all groups. (Alternate impacts is cost of procuring temporary/outside services to fill the void.)	Internal	\$2,268,000	4	40	3	\$907,200	7	Reduce.
Startup	Schedule delays during SOT, OHR, and/or Operations due to unavailability of site support services and/or facilities (due to downsizing/closure).	Schedule extension of 2 months during SOT, OHR, and/or operations period, with additional costs for all groups. (Alternate impacts is cost of procuring temporary/outside services to fill the void.)	Internal	\$756,000	2	30	3	\$226,800	2	Accept.
Startup	Training resources shared with AMR delay schedule.	2 month schedule extension.	Internal	\$750,000	2	50	4	\$375,000	3	Reduce - Monitor schedules and plan ahead.
Startup	RMRS doesn't provide technical support as required in settlement.	FF must provide technical support.	Internal	\$100,000	2	70	5	\$70,000	3	Accept.
			TOTALS	\$78,849,450				\$32,469,125		
Design	Increased design labor costs due to numerous changes and re-work (external sources).	Engineering costs increase 50% over original baseline. Schedule delayed 4 months.	External	\$1,350,000	3	30	3	\$405,000	4	Accept.
Design	Public or other stakeholders do not accept supersaks due to perception.	Must design around other container. Major schedule impact for design change with 6 month impact, and additional cost of change in shipping method, system design changes for loading, additional labor to lid and manage containers during operations.	External	\$10,000,000	5	20	2	\$2,000,000	8	Reduce - Early and often communication and involvement.
Design	EPA approval of RD Package delayed.	Construction and design delayed 1 month.	External	\$250,000	2	20	2	\$50,000	2	Reduce - Communicate with EPA.
Design	PHAR approval delayed due to inability to involve OFO in PHAR development.	Schedule slip of 2 months delays long lead procurements.	External	\$500,000	2	60	4	\$300,000	3	Reduce - Find methods to involve OFO early.
Design	Significant increase in facility costs due to added requirements from reviews by external groups (DNFSB, CT, EPA, DOE-HQ, FCAB, etc.).	Facility costs increase 25% above baseline.	External	\$1,208,000	3	80	5	\$984,800	6	Accept.

Risk/Opportunity Identification and Analysis Form

Project: Silo 3		PBS Number: 07		Total Baseline Dollars (Minimum Case): \$		\$39,250,146	
Evaluator: Karen Wintz		Date: March 21, 2001		WBS Number: 1.1.H.B			
CAM: Karen Wintz		Date: March 21, 2001		Control Account Number: HS3A			

Project Task	Risk and/or Opportunity	Potential Impact	Internal or External	Impact Cost \$ (Maximum)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest)	Risk Critical Value	Risk Handling Strategy
Construction	EPA delayed turnaround of DCNs.	Construction schedule slips 1 month.	External	\$215,000	2	80	5	\$172,000	3	Accept.
Operations	Added inspection, reporting, or procedural requirements for external audits/assessments.	Increased labor cost of 5% of operations.	External	\$240,000	2	70	5	\$168,000	3	Accept.
Operations	Major operations schedule extension due to significant external transportation and/or disposal problems (Envirocare shutdown, public opposition en route or at Envirocare, etc.).	Operations schedule extended 12 months.	External	\$6,000,000	5	20	2	\$1,200,000	3	Accept.
Operations	Minor operations schedule extension due to short-term transportation and/or disposal problems (railroad strike, inadequate handling capacity at Envirocare, inadequate turn around-time of railcars at Envirocare, inavailability of railcars, etc.).	Operations schedule extension of 3 months.	External	\$1,134,000	3	50	3	\$567,000	4	Accept.
Disposal	Envirocare waste acceptance criteria changes due to regulation or license change.	Design change required.	External	\$300,000	3	10	1	\$30,000	1	Accept.
Disposal	Envirocare cost increases to DOE due to handling supersaks.	Price increases 30% over current baselined value.	External	\$230,000	2	80	4	\$138,000	3	Accept.

Project Task	Opportunity	Potential Impact	Internal or External	Impact Cost \$ (Maximum)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest)	Risk Critical Value	Risk Handling Strategy
Construction	Hire WISE or other contractor and eliminate bid cycle.	Reduce construction schedule by 2 months.	Internal	-\$400,000		80		-\$320,000		
Design	Another disposal site opens.	Disposal price reduced 20%.	Internal	-\$153,000		30		-\$45,900		
Design/Safety Basis Documentation	Obtain exemption to prepare new PHAR, based on existing RMRS PHAR and OU4 HAR.	Eliminate cost of preparing PHAR and reduce schedule risk. Equipment procurement can be accelerated.	Internal	-\$200,000		30		-\$60,000		Pursue this strategy with DOE.
Disposal	Envirocare cost reduced using volume by wt/density calculations for disposal.	Cost reduced from \$115/cy to \$103/cy.	Internal	-\$80,000		70		-\$56,000		Pursue this strategy with Envirocare.
Operations	Only 1900 tons material in Silo 3.	Treatment cost and schedule reduced by 50%.	Internal	-\$3,000,000		50		-\$1,500,000		
Operations	Sand Silo 3 material in bulk through WPRAP to Envirocare.	Packaging in Lift Liners eliminated, IT processes material.	Internal	-\$400,000		10		-\$40,000		
Operations	Treatment offsite can be performed at reduced cost.	Project cost reduced 10%.	Internal	-\$2,500,000		10		-\$250,000		

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: HS3A Total

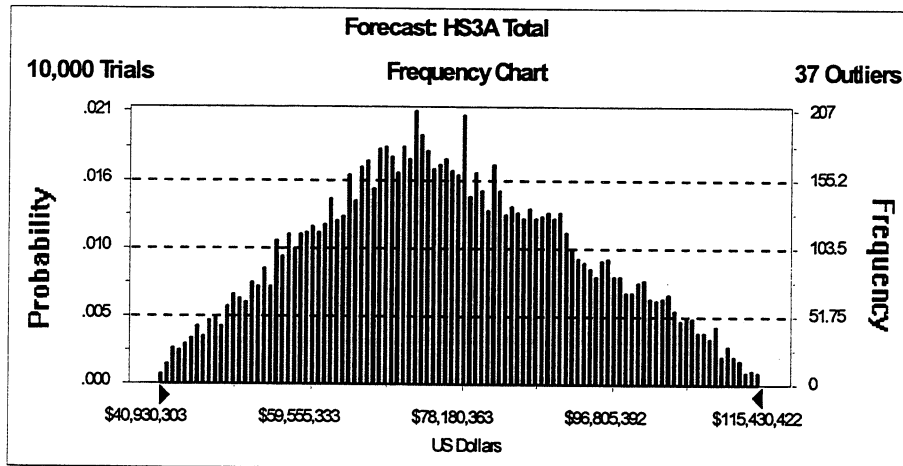
Cell: D104

Summary:

Display Range is from \$40,930,303 to \$115,430,422 US Dollars
Entire Range is from \$39,638,711 to \$117,684,900 US Dollars
After 10,000 Trials, the Std. Error of the Mean is \$161,769

Statistics:

	Value
Trials	10000
Mean	\$76,409,018
Median	\$75,481,835
Mode	---
Standard Deviation	\$16,176,894
Variance	3E + 14
Skewness	0.15
Kurtosis	2.39
Coeff. of Variability	0.21
Range Minimum	\$39,638,711
Range Maximum	\$117,684,900
Range Width	\$78,046,189
Mean Std. Error	\$161,768.94



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: HS3A Total (cont'd)

Cell: D104

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$39,638,711
5%	\$50,418,843
10%	\$55,318,514
15%	\$58,863,489
20%	\$61,929,025
25%	\$64,639,747
30%	\$67,000,735
35%	\$69,206,815
40%	\$71,407,260
45%	\$73,272,426
50%	\$75,481,835
55%	\$77,727,698
60%	\$79,952,691
65%	\$82,423,515
70%	\$85,157,035
75%	\$88,004,882
80%	\$90,914,998
85%	\$94,714,852
90%	\$99,113,069
95%	\$104,491,867
100%	\$117,684,900

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: AWR Project, F-W		PBS Number: 07		Total Baseline Dollars (Minimum Case):		\$5,326,385				
Evaluator: M. Connors		Date: Aug. 15, 2001		WBS Number: 1.1.H.C						
CAM: R. Fellman		Date: Aug. 15, 2001		Control Account Number: HSWR						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Contracts	Settlement Agreement with FWENC exceeds contract funded value due to substantive claims by FWENC.	Payment to FWENC exceeds current estimated earned value of \$27 million.	Internal	\$13,512,000	5	50	3	\$6,756,000	10	Accept
Total:				\$13,512,000			Total:	\$6,756,000		

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: HSWR Total

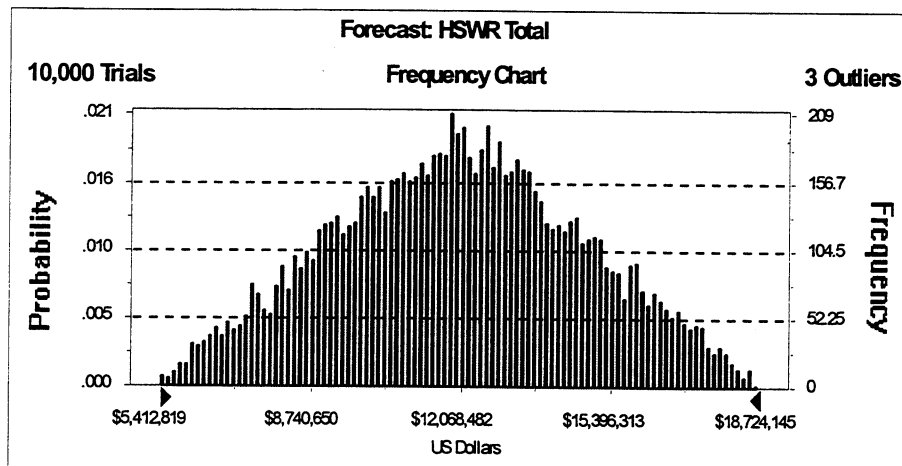
Cell: D106

Summary:

Display Range is from \$5,412,819 to \$18,724,145 US Dollars
 Entire Range is from \$5,408,027 to \$18,774,309 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$27,555

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$12,037,561
Median	\$12,033,692
Mode	---
Standard Deviation	\$2,755,489
Variance	8E + 12
Skewness	0.01
Kurtosis	2.41
Coeff. of Variability	0.23
Range Minimum	\$5,408,027
Range Maximum	\$18,774,309
Range Width	\$13,366,282
Mean Std. Error	\$27,554.89



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: HSWR Total (cont'd)

Cell: D106

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$5,408,027
5%	\$7,443,234
10%	\$8,357,713
15%	\$9,014,963
20%	\$9,546,841
25%	\$10,039,032
30%	\$10,496,366
35%	\$10,908,690
40%	\$11,325,617
45%	\$11,692,340
50%	\$12,033,692
55%	\$12,399,561
60%	\$12,759,813
65%	\$13,145,921
70%	\$13,538,274
75%	\$13,969,751
80%	\$14,519,577
85%	\$15,087,856
90%	\$15,803,614
95%	\$16,672,942
100%	\$18,774,309

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: AWR Project		PBS Number: 07		Total Baseline Dollars (Minimum Case):		\$94,360,701				
Evaluator: M. Connors		Date: Aug. 15, 2001		WBS Number: 1.1.H.C						
CAM: R. Fellman		Date: Aug. 15, 2001		Control Account Number: HWR1						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Contract	Design Due Diligence identifies significant design modifications to safely operate the AWR System. Equipment assigned during Due Diligence is not ready and not available.	Results in schedule delays while DCNs are processed.	Internal	\$3,000,000	3	50	3	\$1,500,000	4	Accept
Contract	Equipment installation and movement over the silos falls onto the silos.	Results in schedule delays while completing equipment fabrication approximately 4 months.	Internal	\$3,000,000	3	50	3	\$1,500,000	4	Accept
Construction	Equipment installation and movement over the silos falls onto the silos.	Silo dome collapses. RCS becomes ineffective. Radon release to environment, requiring an evacuation. Significant delays.	Internal	\$25,454,000	5	20	2	\$5,090,800	8	Accept
Construction	Delays in equipment deliveries impact construction schedule.	Procurement schedules are aggressive and may require overtime to compensate for delays in equipment.	Internal	\$1,000,000	2	50	3	\$500,000	2	Accept
Construction	Weather delays impact the construction schedule.	Construction schedule is aggressive and may require overtime to compensate for weather delays.	Internal	\$1,000,000	2	50	3	\$500,000	2	Accept
Construction	Modifications to the Silo 4 bridge are more extensive than designed, based on field conditions.	Additional costs for the design and construction modifications, which would extend the construction schedule 3 months.	Internal	\$300,000	1	40	3	\$120,000	1	AWR Due Diligence Review to develop mitigation plan.
Operations	Transfer tank capacity does not contain all of the silo material.	Shut down waste transfer activities until an additional storage tank is fabricated and installed in a shielded area. Schedule impact is 9 months.	Internal	\$11,574,000	5	70	4	\$8,101,800	11	AWR Due Diligence Review to develop mitigation plan.
Operations	K-65 material does not flow as predicted in the design (lower than 10% percent solids).	Would result in a longer settling time and maintenance of the pipeline between waste retrieval activities.	Internal	\$12,727,000	5	40	3	\$5,090,800	10	AWR Due Diligence Review to validate risk and develop mitigation plan.
Operations	Full-scale mock-up testing reveals significant design, operability, and safety issues with key equipment.	The impact would be a redesign, procurement and/or modification of long lead time equipment, resulting in a schedule delay of 8 months.	Internal	\$13,368,000	5	40	3	\$5,347,200	10	Accept
Operations	FAT&LC laborers are not available to support the AWR project schedule.	Delays operation of AWR and would be subject to a claim from the Contractor. Assume 4 month delay.	Internal	\$3,986,000	3	30	2	\$1,195,800	3	Accept

Risk/Opportunity Identification and Analysis Form

Project: AWR Project		PBS Number: 07		Total Baseline Dollars (Minimum Case):		\$94,360,701				
Evaluator: M. Connors		Date: Aug. 15, 2001		WBS Number: 1.1.H.C						
CAM: R. Fellman		Date: Aug. 15, 2001		Control Account Number: HWR1						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Operations	Use of supernatant from TTA tanks to support the slurry activities does not meet the water quality requirements.	This would result in the silo waste retrieval process being a wastewater generator instead of a water user, as designed. This would result in greater wastewater volumes to AWWT and to the High Nitrate Tank. If AWWT could not treat this increased volume, results in delays in operations of 3 months.	Internal	\$2,484,000	3	60	4	\$1,490,400	5	AWR Due Diligence Review to develop mitigation plan.
Operations	Lack of key equipment spare parts.	Results in design modifications and schedule delays while modifications are implemented.	Internal	\$4,525,000	3	40	3	\$1,810,000	4	Accept
Operations	Utilizing EMMA and clean out of pipeline has contamination control issues.	Results in design modifications and schedule delays while modifications are implemented.	Internal	\$5,785,000	3	60	4	\$3,471,000	5	AWR Due Diligence Review to develop mitigation plan.
Operations	Berm soil exceeds the Waste Acceptance Criteria for the OSDF.	Results in the soil being shipped to Envirocare for disposal.	Internal	\$4,484,000	3	20	2	\$896,800	3	Accept
Operations	Design for berm soil erosion control around the silos is not safe.	Additional erosion control measures through additional design and construction activities. This activity would result in a delay in silo waste retrieval activity of 1 month.	Internal	\$1,157,000	3	50	3	\$578,500	4	AWR Due Diligence Review to develop mitigation plan.
Operations	Untimely turnaround of the berm soil sampling analysis.	Delays in the wastewater sampling analysis impacts the silo waste retrieval activities. Estimated delay of 3 months.	Internal	\$4,525,000	3	30	3	\$1,357,500	4	Accept
Operations	Untimely turnaround of the wastewater sampling analysis.	Delays in the wastewater sampling analysis impacts the silo waste retrieval activities. Estimated delay of 3 months or the use of temporary wastewater tanks until the analysis is complete.	Internal	\$4,525,000	3	30	3	\$1,357,500	4	AWR Due Diligence Review to develop mitigation plan.
Operations	Wastewater requires pretreatment prior to meeting the AWWT requirements.	Need a skid water treatment process to meet the AWWT requirements. Schedule delay of 2 months and/or use of additional wastewater tanks.	Internal	\$4,000,000	3	70	4	\$2,800,000	5	AWR Due Diligence Review to develop mitigation plan.
Operations	Surrogate material used during the full-scale mock-up testing is not reusable after transferred to and from the TTA.	Additional secondary waste cost and cost for the additional surrogate. Delay in procuring the surrogate - 1 month.	Internal	\$300,000	1	50	3	\$150,000	1	Accept
Operations	BentogROUT does not completely rehydrate and causes clumping and gelling effects during the silo waste retrieval activities.	The clumping and gelling would require lower percent solid in transfer or that the BentogROUT would separate from the slurry cause operations to change 3 month delay	Internal	\$5,000,000	3	50	3	\$2,500,000	4	AWR Due Diligence Review to develop mitigation plan.

Risk/Opportunity Identification and Analysis Form

Project: AWR Project		Date: Aug. 15, 2001		PBS Number: 07		Total Baseline Dollars (Minimum Case):		\$94,360,701		
Evaluator: M. Connors		Date: Aug. 15, 2001		WBS Number: 1.1.H.C						
CAM: R. Fellman				Control Account Number: HWR1						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Operations	Uncontrolled radon release out of the silos/tanks via the pressure relief valve.	Due to the public concerns about radon the project would be shutdown until modification to the RCS system are implemented 6 months delay in operations	Internal	\$9,000,000	4	30	3	\$2,700,000	7	AWR Due Diligence review to develop mitigation plan.
Operations	Radon release exceeds the fence/line or worker exposure limit due to carbon bed inefficiencies.	RCS system will be modified to address the carbon bed inefficiencies 3 month schedule impact	Internal	\$5,000,000	3	30	3	\$1,500,000	4	Accept
Operations	Weather delays impact the silo waste retrieval activities on the Silos 1 and 2 bridge structure.	Operations schedules are based on a 5 day/week schedule will work weekends to compensate for weather delays	Internal	\$1,000,000	2	50	3	\$500,000	2	Accept
Safe shutdown and Demobilization	Subcontractor equipment becomes contaminated and cannot be released from the site.	Results in the subcontractor's equipment being treated as a waste stream and disposed of or extensive decontamination is required.	Internal	\$220,000	2	60	4	\$132,000	3	Accept
				Total:			Total:	\$50,190,100		
Operations	Archive sampling of the K-65 material is required to support the Silos 1 and 2 Project as directed by DOE.	May have to design, procure, fabricate, train for, and operate a sampling system.	External	\$2,000,000	3	20	2	\$400,000	3	
Operations	Extended readiness and startup for the Radon Control System (RCS) Phase 1 and AWR waste retrieval due to the involvement of outside influences (DNFSB, TFA, etc.) as directed by DOE.	These outside influences would result in a schedule extension of 4 months.	External	\$3,986,000	3	50	3	\$1,993,000	4	

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: HWR1 Total

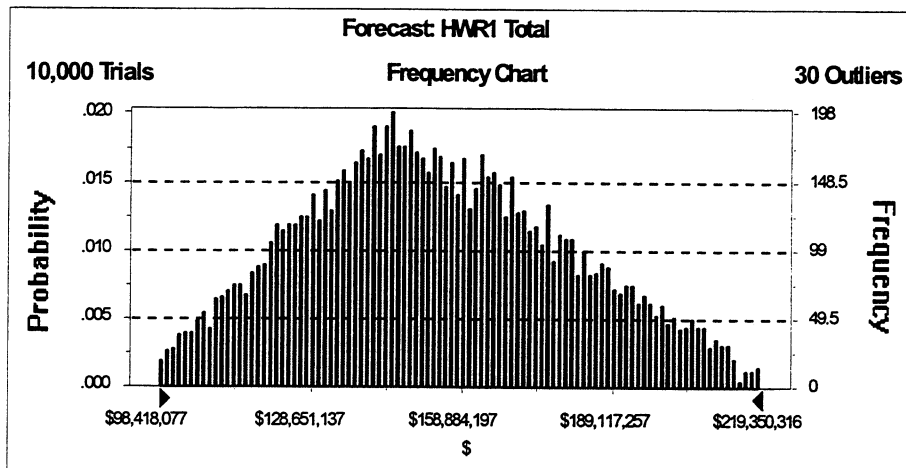
Cell: D108

Summary:

Display Range is from \$98,418,077 to \$219,350,316 \$
 Entire Range is from \$95,301,031 to \$220,942,547 \$
 After 10,000 Trials, the Std. Error of the Mean is \$264,779

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$153,797,177
Median	\$151,951,235
Mode	---
Standard Deviation	\$26,477,884
Variance	7E + 14
Skewness	0.19
Kurtosis	2.40
Coeff. of Variability	0.17
Range Minimum	\$95,301,031
Range Maximum	\$220,942,547
Range Width	\$125,641,516
Mean Std. Error	\$264,778.84



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: HWR1 Total (cont'd)

Cell: D108

Percentiles:

<u>Percentile</u>	<u>\$</u>
0%	\$95,301,031
5%	\$111,801,890
10%	\$119,710,370
15%	\$125,082,728
20%	\$129,890,308
25%	\$134,402,704
30%	\$138,277,043
35%	\$141,748,215
40%	\$145,091,579
45%	\$148,450,548
50%	\$151,951,235
55%	\$155,712,703
60%	\$159,800,058
65%	\$163,689,138
70%	\$167,762,773
75%	\$172,308,149
80%	\$177,602,489
85%	\$183,711,663
90%	\$191,048,535
95%	\$200,601,835
100%	\$220,942,547

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Nuclear Material Disposition		PBS Number: 8		Total Baseline Dollars (Minimum Case):		\$8,919,244				
Evaluator: J. Samples		Date: May 1, 2001		WBS Number: 1.1.J.A.						
CAM: R. Schulten		Date: May 1, 2001		Control Account Number: JNMS						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Reviews and assessments	Increased project scrutiny	Increased level on internal and external assessments (DNFSB, ISRC, ORR, DOE, regulators, etc)	Internal	\$250,000	2	20	2	\$50,000	2	Accept
Total:				\$250,000			Total:	\$50,000		

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: JNMS Total

Cell: D113

Summary:

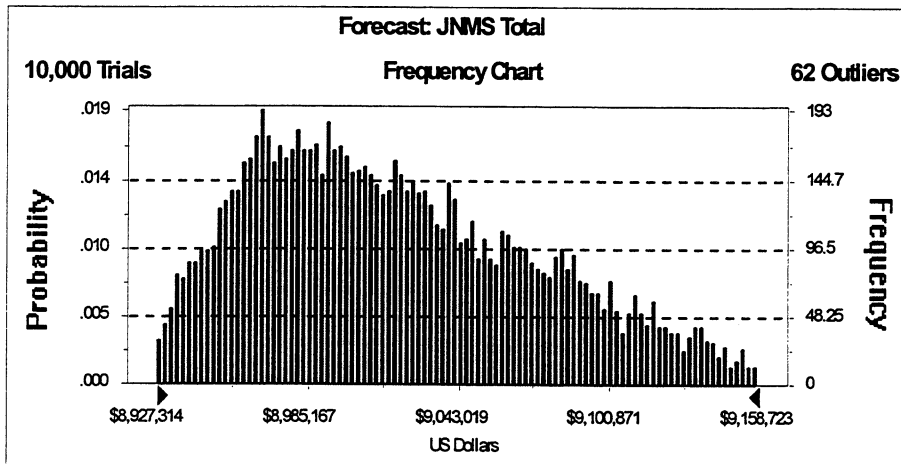
Display Range is from \$8,927,314 to \$9,158,723 US Dollars

Entire Range is from \$8,920,710 to \$9,167,552 US Dollars

After 10,000 Trials, the Std. Error of the Mean is \$543

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$9,019,708
Median	\$9,011,668
Mode	---
Standard Deviation	\$54,292
Variance	\$2,947,671,175
Skewness	0.48
Kurtosis	2.41
Coeff. of Variability	0.01
Range Minimum	\$8,920,710
Range Maximum	\$9,167,552
Range Width	\$246,842
Mean Std. Error	\$542.92



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: JNMS Total (cont'd)

Cell: D113

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$8,920,710
5%	\$8,943,664
10%	\$8,954,465
15%	\$8,962,642
20%	\$8,969,062
25%	\$8,976,026
30%	\$8,982,912
35%	\$8,989,821
40%	\$8,996,769
45%	\$9,003,973
50%	\$9,011,668
55%	\$9,019,739
60%	\$9,027,855
65%	\$9,036,961
70%	\$9,046,813
75%	\$9,058,629
80%	\$9,070,075
85%	\$9,083,509
90%	\$9,098,837
95%	\$9,120,326
100%	\$9,167,552

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Uranium Product Disposition		PBS Number: 8		Total Baseline Dollars (Minimum Case):				\$8,785,635			
Evaluator: J. Samples		Date: May 1, 2001		WBS Number: 1.1.J.B							
CAM: R. Schulten		Date: May 1, 2001		Control Account Number: JNMP							
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy	
Process changes for hydrogen generating & pyrophoric material	Additional requirements & costly steps to movement and packaging operations	Slow down the container handling and repackaging operations	Internal	\$688,000	2	20	2	\$137,600	2	Accept	
Repackaging compounds cost more due to unknowns in the material and/or Vacuum Transfer Equipment does not work as expected	Slower, manual repackaging of the material	Schedule and cost impact	Internal	\$4,100,000	3	40	32	\$1,640,000	3	Accept	
Procurement/delivery delay for shipping containers	Delays packaging for shipment	Schedule and cost impact	Internal	\$200,000	2	50	3	\$100,000	2	Reduce	
Material does not conform to acceptable payloads for shipping containers	Material would need special shipping exemptions pursued (additional beyond baseline expectations)	Additional cost for shipments, schedule delay.	Internal	\$150,000	2	75	4	\$112,500	3	Accept	
Total:				\$5,138,000				\$1,990,100			
Changes in container configuration needed to support regulatory changes	Would require acquiring another package and repackaging material into it	Schedule and cost impact	External	\$4,000,000	4	20	2	\$800,000	5		
Portsmouth shuts down or rejects remaining material	Only outlet for this material	Stop shipping NM & must treat the balance remaining on site as waste	External	\$13,000,000	5	20	3	\$2,600,000	10		
Nuclear material at Portsmouth is declared waste	FEMP would have to pay for treatment and disposal costs	Material would require treatment, packaging, and transport to a disposal facility	External	\$55,300,000	5	10	2	\$5,530,000	8		

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: JNMP Total

Cell: D115

Summary:

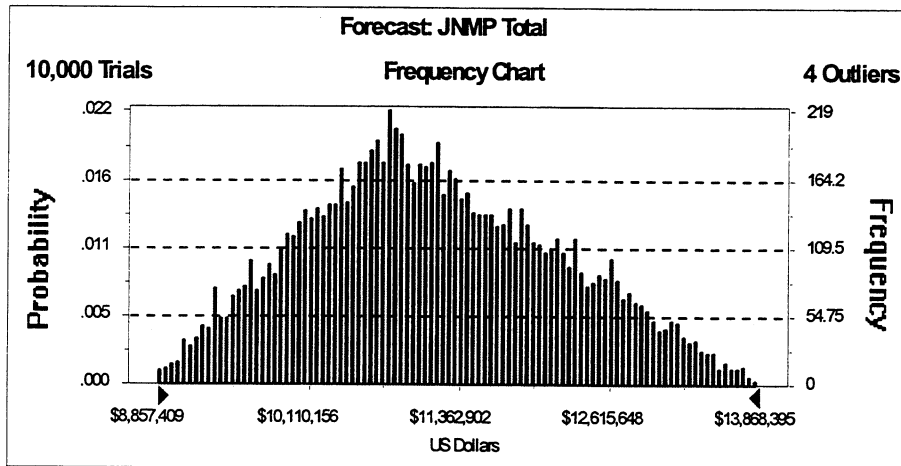
Display Range is from \$8,857,409 to \$13,868,395 US Dollars

Entire Range is from \$8,857,409 to \$13,878,984 US Dollars

After 10,000 Trials, the Std. Error of the Mean is \$10,523

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$11,151,934
Median	\$11,067,355
Mode	---
Standard Deviation	\$1,052,276
Variance	1E + 12
Skewness	0.22
Kurtosis	2.39
Coeff. of Variability	0.09
Range Minimum	\$8,857,409
Range Maximum	\$13,878,984
Range Width	\$5,021,575
Mean Std. Error	\$10,522.76



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: JNMP Total (cont'd)

Cell: D115

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$8,857,409
5%	\$9,500,730
10%	\$9,795,279
15%	\$10,022,579
20%	\$10,204,326
25%	\$10,379,080
30%	\$10,535,480
35%	\$10,670,675
40%	\$10,798,612
45%	\$10,919,538
50%	\$11,067,355
55%	\$11,207,152
60%	\$11,357,769
65%	\$11,530,003
70%	\$11,718,549
75%	\$11,910,184
80%	\$12,125,849
85%	\$12,353,991
90%	\$12,637,766
95%	\$12,986,226
100%	\$13,878,984

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Uranium Waste Disposition (UWD)		PBS Number: 8		Total Baseline Dollars (Minimum Case):		\$21,717,005				
Evaluator: A. Neiling		Date: April 26, 2001		WBS Number: 1.1.J.C						
CAM: M. Frost		Date: April 26, 2001		Control Account Number: JUWP						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
UWD RCRA Inventory	Reject product material is declared waste, and subsequent characterization deems it to be hazardous waste requiring treatment prior to disposal.	Additional cost for treatment of added RCRA inventory	Internal	\$7,500,000	4	40	3	\$3,000,000	7	Accept
RCRA waste treatment	Required treatment of waste not recharacterized as Non-RCRA	\$500/drum for 388 drums	Internal	\$1,940,000	3	20	2	\$388,000	2	Accept
Waste packaging of oversized materials	Oversized materials require size reduction	Additional cost for design, construction, start-up and operation of a size reduction process.	Internal	\$750,000	2	50	3	\$375,000	2	Accept
Decanting water from container	Decant water can not be dispositioned through AWWT	Additional cost for packaging, shipment, and off-site treatment of decant water.	Internal	\$500,000	2	10	1	\$50,000	1	Accept
Enriched material co-packaging with LLW	Not enough FEMP LLW is available for fissile material co-packaging.	Additional cost for enrichment blending at an off-site facility to meet the NTS WAC.	Internal	\$9,500,000	4	50	4	\$4,750,000	8	Accept
Waste packaging in FEMP building	FEMP building not available for materials packaging	Additional schedule and cost to relocate the packaging operations to another FEMP facility	Internal	\$750,000	2	10	2	\$75,000	2	Accept
Waste Disposal	Delays in NTS profile approval.	4 month schedule delay	External	\$1,000,000	3	50	3	\$500,000	3	Accept
UWD project support	Project schedule extension due to complications associated with repackaging and shipment of uranium materials.	12 month schedule delay, additional project support	Internal	\$1,500,000	3	50	3	\$750,000	4	Accept
Waste packaging	SSR required for packaging start-up	3 month schedule delay, additional support cost and labor cost.	Internal	\$450,000	2	40	3	\$180,000	2	Avoid

Risk/Opportunity Identification and Analysis Form

Project: Uranium Waste Disposition (UWD)		PBS Number: 8		Total Baseline Dollars (Minimum Case):		\$21,717,005						
Evaluator: A. Neiling		Date: April 26, 2001		WBS Number: 1.1.J.C								
CAM: M. Frost		Date: April 26, 2001		Control Account Number: JUWP								
Project Task		Risk and/or Opportunity		Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Waste characterization	Increase analytical cost and increased number of samples required for characterization	100 additional samples and \$500/sample increase in cost	Internal			\$300,000	2	30	2	\$90,000	2	Accept
Waste Acceptance at NFS	NFS cannot accept fissile metals for processing and reuse or disposal	450 fissile drums for disposal at NTS co-packaged with LLW	Internal			\$1,000,000	3	30	2	\$300,000	3	Accept
Waste/Soil Blending	Enriched compounds can not be blended in WPPRAP process to meet DOT and/or Envirocare requirements	2450 containers will require repackaging, shipment, and disposal at NTS. 2 year schedule delay	Internal			\$5,500,000	5	20	2	\$1,100,000	8	Accept
Waste packaging	Waste container procurement or delivery delays	3 month schedule delay	Internal			\$450,000	2	50	4	\$225,000	3	Accept
Process changes for hydrogen generating & pyrophoric material	Additional requirements & costly steps to movement and packaging operations	Slow down the container handling and repackaging operations	Internal			\$688,000	2	20	2	\$137,600	2	Accept
Repackaging compounds cost more due to unknowns in the material and/or Vacuum Transfer Equipment does not work as expected	Slower, manual repackaging of the material	Schedule and cost impact	Internal			\$4,100,000	3	40	2	\$1,640,000	3	Accept
Total:						\$35,928,000				\$13,560,600		
UWD RCRA treatment	RCRA treatment off-site not feasible	Additional cost for design, construction, start-up and operation of a RCRA treatment process.	External			\$10,000,000	5	40	3	\$4,000,000	10	
Waste Disposal	NTS can not accept fissile waste for disposal	Additional cost for enrichment blending at an off-site facility to meet the NTS WAC.	External			\$8,500,000	4	30	2	\$2,550,000	5	
DOE Mound Characterization of sealed sources cannot be utilized for the FEMP population of sources.	Characterization of the FEMP sealed sources will have to be done.	Schedule and cost impact	External			\$2,800,000	3	30	2	\$840,000	3	

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: JUWP Total

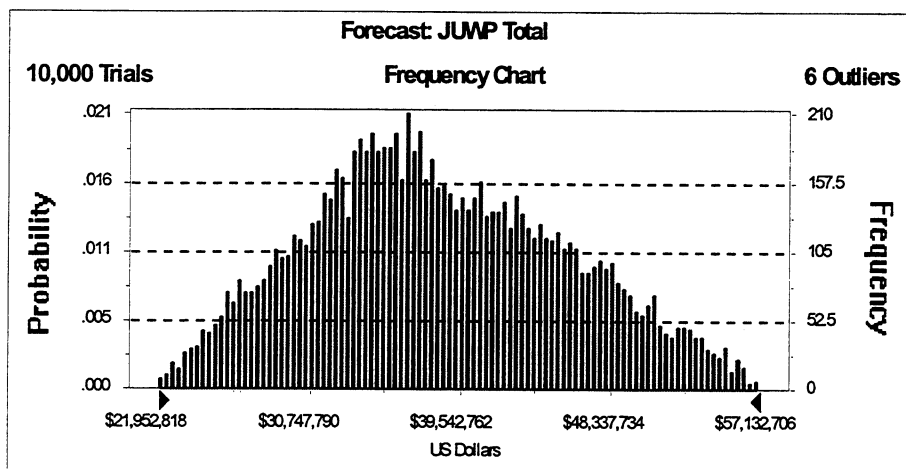
Cell: D117

Summary:

Display Range is from \$21,952,818 to \$57,132,706 US Dollars
 Entire Range is from \$21,798,379 to \$57,372,389 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$75,071

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$38,393,240
Median	\$37,681,743
Mode	---
Standard Deviation	\$7,507,069
Variance	6E + 13
Skewness	0.21
Kurtosis	2.37
Coeff. of Variability	0.20
Range Minimum	\$21,798,379
Range Maximum	\$57,372,389
Range Width	\$35,574,010
Mean Std. Error	\$75,070.69



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: JUWP Total (cont'd)

Cell: D117

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$21,798,379
5%	\$26,588,768
10%	\$28,731,720
15%	\$30,337,344
20%	\$31,717,155
25%	\$32,842,583
30%	\$33,900,754
35%	\$34,848,212
40%	\$35,801,731
45%	\$36,724,824
50%	\$37,681,743
55%	\$38,773,242
60%	\$39,994,651
65%	\$41,212,454
70%	\$42,488,657
75%	\$43,841,864
80%	\$45,313,005
85%	\$46,986,554
90%	\$48,881,304
95%	\$51,517,134
100%	\$57,372,389

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Hazardous Waste Disposition		PBS Number: 10		Total Baseline Dollars (Minimum Case):		\$3,726,662				
Evaluator: K. Crosson		Date: Mar. 23, 2001		WBS Number: 1.1.K.F						
CAM: J. Duling		Date: Mar. 23, 2001		Control Account Number: KBHW						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Planning and Management	Waste disposal costs increase due to unforeseen changes in the market.	Cost to dispose of Hazardous Waste doubles.	Internal	\$221,000	2	10	1	\$22,100	1	Accept
Planning and Management	Current waste recycling and/or treatment and disposal contracts change midstream due to unforeseen circumstances.	New contracts will be issued, schedule impacts, additional cost for contract development and award.	Internal	\$100,000	2	10	1	\$10,000	1	Accept
Planning and Management	Delay in subcontractor readiness/operational ability	Increase schedule/redirection of waste to alternate facility	Internal	\$187,500	2	10	1	\$18,750	1	Accept
Processing	Subcontractor inability to meet treatment criteria	Redirection of waste to alternate subcontractor	Internal	\$62,500	1	10	1	\$6,250	1	Accept
Total:				\$571,000			Total:	\$57,100		

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: KBHW Total

Cell: D130

Summary:

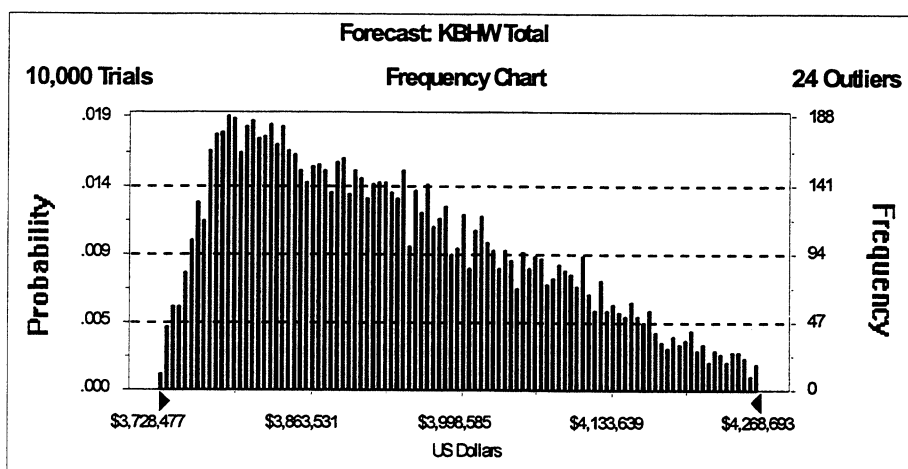
Display Range is from \$3,728,477 to \$4,268,693 US Dollars

Entire Range is from \$3,727,610 to \$4,292,446 US Dollars

After 10,000 Trials, the Std. Error of the Mean is \$1,287

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$3,937,094
Median	\$3,916,842
Mode	---
Standard Deviation	\$128,707
Variance	#####
Skewness	0.54
Kurtosis	2.40
Coeff. of Variability	0.03
Range Minimum	\$3,727,610
Range Maximum	\$4,292,446
Range Width	\$564,837
Mean Std. Error	\$1,287.07



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: KBHW Total (cont'd)

Cell: D130

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$3,727,610
5%	\$3,766,776
10%	\$3,784,233
15%	\$3,798,639
20%	\$3,813,624
25%	\$3,828,903
30%	\$3,844,418
35%	\$3,862,360
40%	\$3,879,681
45%	\$3,897,689
50%	\$3,916,842
55%	\$3,935,939
60%	\$3,956,398
65%	\$3,977,290
70%	\$4,001,729
75%	\$4,027,999
80%	\$4,058,220
85%	\$4,089,922
90%	\$4,126,538
95%	\$4,175,841
100%	\$4,292,446

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: AWWT		PBS Number: 10		Total Baseline Dollars (Minimum Case):					\$807,269	
Evaluator: K. Crosson		Date: Mar 23, 2001		WBS Number: 1.1.K.G						
CAM: J. Duling		Date: Mar 23, 2001		Control Account Number: KBLA						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Planning	Unplanned waste identification / generation (500 containers * \$200.00)	Increased cost due to extended project oversight / management.	Internal	\$100,000	4	50	3	\$50,000	5	Accept
Processing	Schedule extension due to delays in waste disposal activities	Increased cost due to extended project oversight / management.	Internal	\$100,000	4	50	3	\$50,000	5	Accept
Total:				\$200,000			Total:	\$100,000		

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: KBLA Total

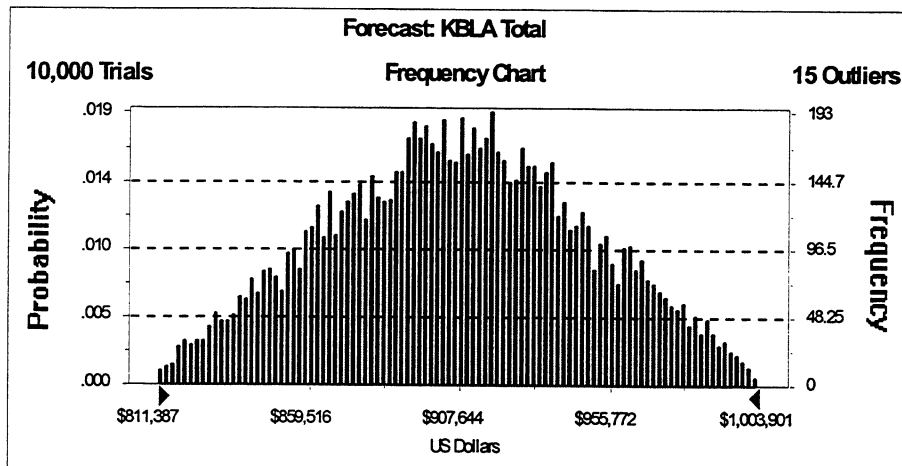
Cell: D132

Summary:

Display Range is from \$811,387 to \$1,003,901 US Dollars
Entire Range is from \$808,934 to \$1,005,448 US Dollars
After 10,000 Trials, the Std. Error of the Mean is \$412

Statistics:

	Value
Trials	10000
Mean	\$907,061
Median	\$907,272
Mode	---
Standard Deviation	\$41,198
Variance	\$1,697,252,428
Skewness	0.01
Kurtosis	2.38
Coeff. of Variability	0.05
Range Minimum	\$808,934
Range Maximum	\$1,005,448
Range Width	\$196,514
Mean Std. Error	\$411.98



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: KBLA Total (cont'd)

Cell: D132

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$808,934
5%	\$838,454
10%	\$851,648
15%	\$861,451
20%	\$869,501
25%	\$876,707
30%	\$884,096
35%	\$890,684
40%	\$895,957
45%	\$901,550
50%	\$907,272
55%	\$912,741
60%	\$918,187
65%	\$923,911
70%	\$930,159
75%	\$936,510
80%	\$943,769
85%	\$952,701
90%	\$963,037
95%	\$976,040
100%	\$1,005,448

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Inorganic Treatment		PBS Number: 10		Total Baseline Dollars (Minimum Case): \$4,846,000									
Evaluator: K. Crosson		Date: Mar. 23, 2001		WBS Number: 1.1.K.C									
CAM: J. Duling		Date: Mar. 23, 2001		Control Account Number: KBNR									
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy			
Planning and Management (KBNR1) Mercury	< 6 mon. Delay in subcontractor identification	< 6 mon. delay	Internal	\$200,000	3	50	4	\$100,000	5	Accept			
Characterization	Subcontractor inability to meet treatment criteria	Redirection of waste to alternate subcontractor	Internal	\$25,000	1	50	4	\$12,500	2	Accept			
Processing	FAT&LC operations personnel not available	< 3 mon. Delay in operations/increase in schedule	Internal	\$100,000	2	30	2	\$30,000	2	Accept			
Planning and Management (KBNR2) Macro Decon	< 6 mon. Delay in treatment subcontractor identification.	< 6 mon. delay	Internal	\$200,000	3	20	2	\$40,000	3	Accept			
Characterization	Subcontractor inability to meet treatment criteria.	Redirection of waste to alternate subcontractor	Internal	\$557,000	2	20	2	\$111,400	2	Accept			
Processing	FAT&LC operations personnel not available	< 3 mon. Delay in operations/increase in schedule	Internal	\$130,000	2	30	2	\$39,000	2	Accept			
Planning and Management (KBNR3) Soils, Sludges, & Debris	< 6 mon. Delay in subcontractor identification	< 6 mon. delay	Internal	\$200,000	3	50	4	\$100,000	5	Accept			
Characterization	Subcontractor inability to meet treatment criteria	Redirection of waste to alternate subcontractor	Internal	\$1,900,000	3	50	4	\$950,000	5	Accept			
Processing	FAT&LC operations personnel not available	< 3 mon. Delay in operations/increase in schedule	Internal	\$320,000	2	30	2	\$96,000	2	Accept			
Total:				\$3,632,000			Total:	\$1,478,900					

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: KBNR Total

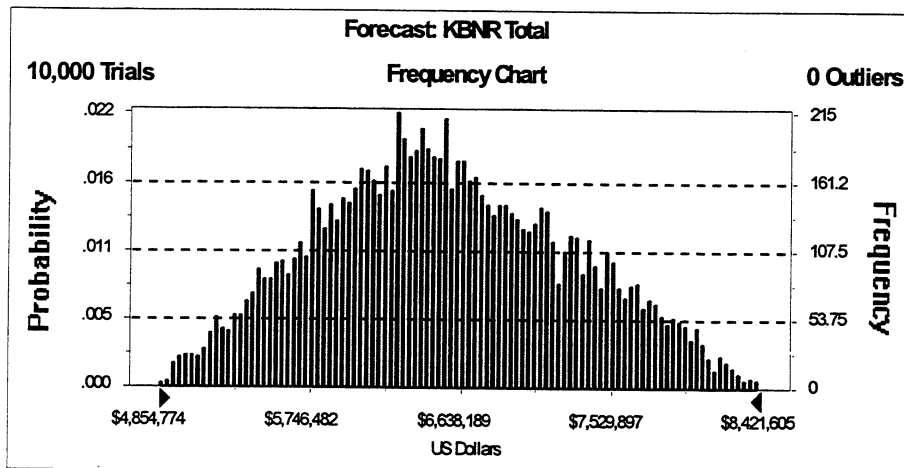
Cell: D124

Summary:

Display Range is from \$4,854,774 to \$8,421,605 US Dollars
 Entire Range is from \$4,854,774 to \$8,421,605 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$7,414

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$6,548,642
Median	\$6,504,058
Mode	---
Standard Deviation	\$741,414
Variance	5E + 11
Skewness	0.15
Kurtosis	2.37
Coeff. of Variability	0.11
Range Minimum	\$4,854,774
Range Maximum	\$8,421,605
Range Width	\$3,566,831
Mean Std. Error	\$7,414.14



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: KBNR Total (cont'd)

Cell: D124

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$4,854,774
5%	\$5,374,751
10%	\$5,577,756
15%	\$5,753,003
20%	\$5,880,311
25%	\$6,004,839
30%	\$6,110,111
35%	\$6,220,881
40%	\$6,314,840
45%	\$6,410,837
50%	\$6,504,058
55%	\$6,602,463
60%	\$6,704,212
65%	\$6,821,590
70%	\$6,950,160
75%	\$7,089,690
80%	\$7,235,091
85%	\$7,398,353
90%	\$7,580,800
95%	\$7,830,929
100%	\$8,421,605

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Organic Treatment		PBS Number: 10		Total Baseline Dollars (Minimum Case):		\$8,833,294				
Evaluator: K. Crosson		Date: Mar. 23, 2001		WBS Number: 1.1.K.B						
CAM: J. Duling		Date: Mar. 23, 2001		Control Account Number: KBRT						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
* R1-D-693										
Planning and Management (KBRT) Organic Treatment	Delay in subcontractor readiness/operational ability	Increased < 3 mon. schedule/redirection of waste to alternate subcontractor	Internal	\$3,000,000	3	40	3	\$1,200,000	3	Accept
Characterization	Increased sampling activities	Increased project cost	Internal	\$500,000	2	25	2	\$125,000	2	Accept
Processing	Subcontractor inability to meet treatment criteria	Redirection of waste to alternate subcontractor	Internal	\$1,000,000	3	30	2	\$300,000	3	Accept
Packaging	FAT&LC operations personnel not available	< 3 mon. Delay in operations/increase in schedule	Internal	\$325,000	2	50	3	\$162,500	2	Accept
Packaging	Need to procure container for liquid shipments	< 3 mon. Delay in schedule/increase in project cost	Internal	\$250,000	2	50	3	\$125,000	2	Accept
Shipping	Delay in subcontractor readiness/operational schedule	< 3 mon. Delay in operations / increase in schedule	Internal	\$500,000	2	50	3	\$250,000	2	Accept
Total:				\$5,575,000			Total:	\$2,162,500		
Processing R1-D-693		EM-50 funding for VTD	External	\$6,000,000	N/A	50	3	\$3,000,000	2	Accept

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: KBRT Total

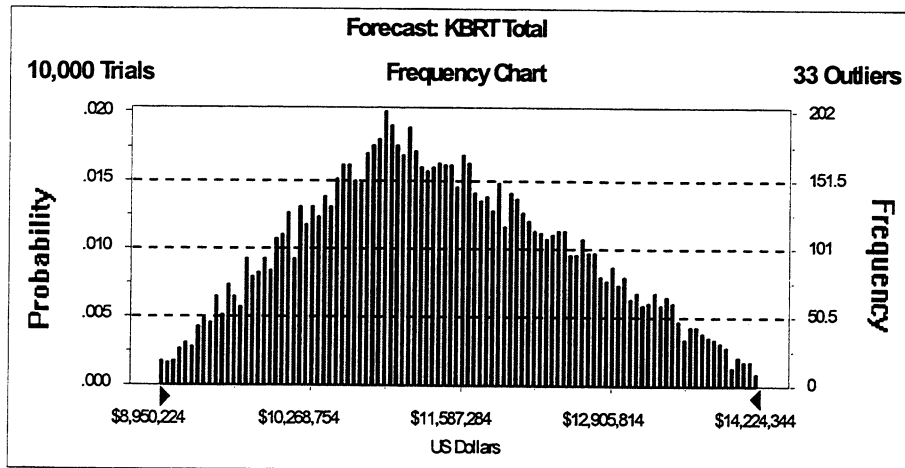
Cell: D122

Summary:

Display Range is from \$8,950,224 to \$14,224,344 US Dollars
 Entire Range is from \$8,846,264 to \$14,382,743 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$11,535

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$11,409,927
Median	\$11,323,342
Mode	---
Standard Deviation	\$1,153,475
Variance	1E+12
Skewness	0.21
Kurtosis	2.39
Coeff. of Variability	0.10
Range Minimum	\$8,846,264
Range Maximum	\$14,382,743
Range Width	\$5,536,480
Mean Std. Error	\$11,534.75



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: KBRT Total (cont'd)

Cell: D122

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$8,846,264
5%	\$9,595,496
10%	\$9,924,850
15%	\$10,168,460
20%	\$10,375,311
25%	\$10,560,847
30%	\$10,730,100
35%	\$10,880,199
40%	\$11,018,543
45%	\$11,163,755
50%	\$11,323,342
55%	\$11,486,439
60%	\$11,650,480
65%	\$11,831,242
70%	\$12,031,610
75%	\$12,230,280
80%	\$12,461,034
85%	\$12,718,970
90%	\$13,030,036
95%	\$13,435,548
100%	\$14,382,743

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Sample Disposition		PBS Number: 10		Total Baseline Dollars (Minimum Case):		\$1,605,946				
Evaluator: K. Crosson		Date: Mar. 23, 2001		WBS Number: 1.1.K.D						
CAM: J. Duling		Date: Mar. 23, 2001		Control Account Number: KBSD						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Packaging	Inability to use building 68 for operations	6 mon. delay to identify/retrofit a facility for use	Internal	\$575,000		3	30	2	\$172,500	5 Accept
Shipping	FAT&LC operations personnel not available	< 6 mon. Delay in operations/increase in schedule	Internal	\$200,000		2	30	2	\$60,000	5 Accept
				Total:		\$775,000		Total:		\$232,500
Processing	Loss of Broad Spectrum contract	Redirection of waste to alternate subcontractor	External	\$1,000,000		3	70	4	\$700,000	5

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: KBSD Total

Cell: D126

Summary:

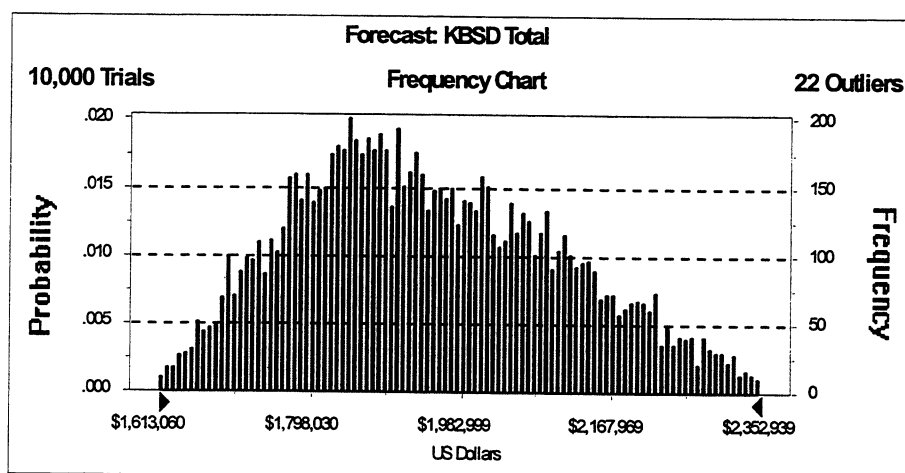
Display Range is from \$1,613,060 to \$2,352,939 US Dollars

Entire Range is from \$1,609,454 to \$2,377,909 US Dollars

After 10,000 Trials, the Std. Error of the Mean is \$1,614

Statistics:

	Value
Trials	10000
Mean	\$1,945,181
Median	\$1,927,748
Mode	---
Standard Deviation	\$161,435
Variance	#####
Skewness	0.32
Kurtosis	2.38
Coeff. of Variability	0.08
Range Minimum	\$1,609,454
Range Maximum	\$2,377,909
Range Width	\$768,455
Mean Std. Error	\$1,614.35



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: KBSD Total (cont'd)

Cell: D126

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$1,609,454
5%	\$1,702,002
10%	\$1,742,031
15%	\$1,773,359
20%	\$1,797,743
25%	\$1,822,231
30%	\$1,843,478
35%	\$1,863,085
40%	\$1,883,214
45%	\$1,905,813
50%	\$1,927,748
55%	\$1,952,230
60%	\$1,977,573
65%	\$2,004,830
70%	\$2,032,708
75%	\$2,061,745
80%	\$2,092,552
85%	\$2,128,493
90%	\$2,172,226
95%	\$2,231,669
100%	\$2,377,909

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Mixed Waste for Incineration		PBS Number: 10		Total Baseline Dollars (Minimum Case):		\$1,505,195				
Evaluator: K. Crosson		Date: Mar. 23, 2001		WBS Number: 1.1.K.E						
CAM: J. Duling		Date: Mar. 23, 2001		Control Account Number: KBTS						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy

note

Planning and Management		TSCAI can not receive Fernald Waste due to equity issues between the State of Tennessee, and the DOE.	The cost for disposal increases from about \$200,000.00 / Batch, to about \$900,000.00 / Batch. Disposal through Broad Spectrum Contract.	External	\$2,800,000	3	75	5	\$2,100,000	6
		Total:			\$0			Total:	\$0	

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: KBTS Total

Cell: D128

Summary:

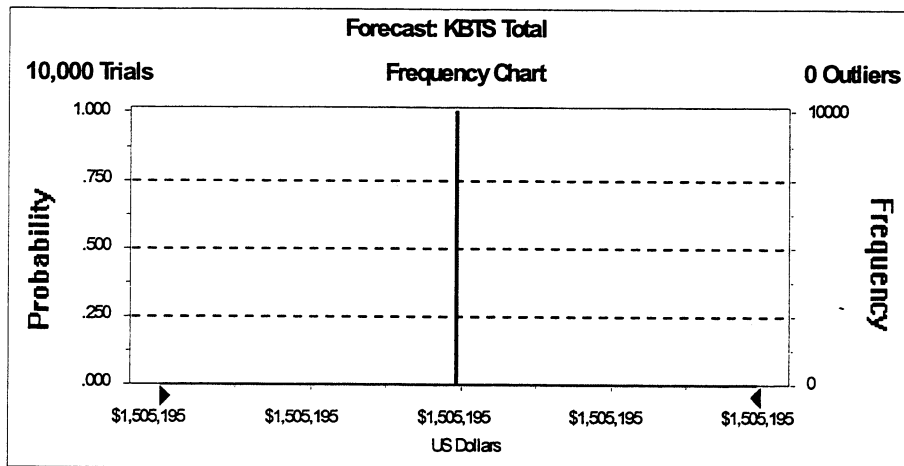
Display Range is from \$1,505,195 to \$1,505,195 US Dollars

Entire Range is from \$1,505,195 to \$1,505,195 US Dollars

After 10,000 Trials, the Std. Error of the Mean is \$0

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$1,505,195
Median	\$1,505,195
Mode	\$1,505,195
Standard Deviation	\$0
Variance	\$0
Skewness	0.00
Kurtosis	+ Infinity
Coeff. of Variability	0.00
Range Minimum	\$1,505,195
Range Maximum	\$1,505,195
Range Width	\$0
Mean Std. Error	\$0.00



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: KBTS Total (cont'd)

Cell: D128

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$1,505,195
5%	\$1,505,195
10%	\$1,505,195
15%	\$1,505,195
20%	\$1,505,195
25%	\$1,505,195
30%	\$1,505,195
35%	\$1,505,195
40%	\$1,505,195
45%	\$1,505,195
50%	\$1,505,195
55%	\$1,505,195
60%	\$1,505,195
65%	\$1,505,195
70%	\$1,505,195
75%	\$1,505,195
80%	\$1,505,195
85%	\$1,505,195
90%	\$1,505,195
95%	\$1,505,195
100%	\$1,505,195

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Waste Treatment and Storage Admin.		PBS Number: 10		Total Baseline Dollars (Minimum Case):		\$1,326,479				
Evaluator: K. Crosson		Date: Mar. 23, 2001		WBS Number: 1.1.K.A						
CAM: J. Duling		Date: Mar. 23, 2001		Control Account Number: KBWT						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Planning and Management	Schedule extension due to delays in waste disposal activities.	Increased cost due to continued project oversight.	Internal	\$350,000		4	25	2	\$87,500	5 Accept
Total:				\$350,000				Total:	\$87,500	

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: KBWT Total

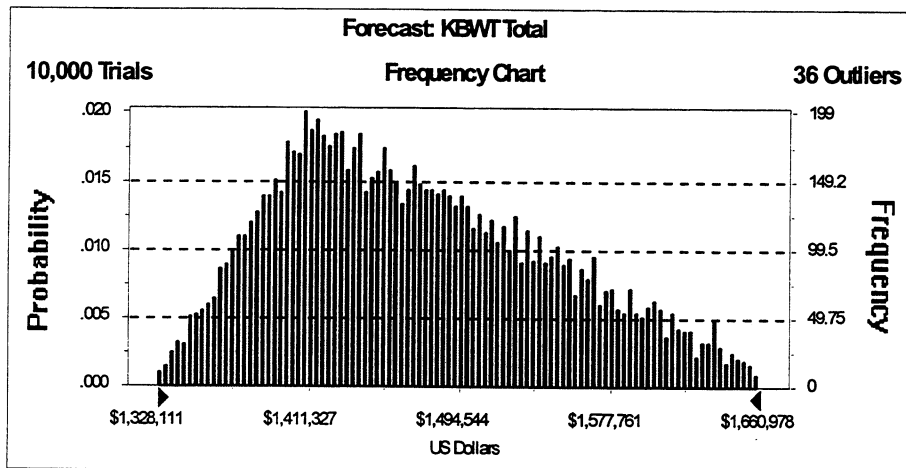
Cell: D120

Summary:

Display Range is from \$1,328,111 to \$1,660,978 US Dollars
 Entire Range is from \$1,328,105 to \$1,673,817 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$751

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$1,472,011
Median	\$1,461,842
Mode	---
Standard Deviation	\$75,055
Variance	\$5,633,249,634
Skewness	0.43
Kurtosis	2.40
Coeff. of Variability	0.05
Range Minimum	\$1,328,105
Range Maximum	\$1,673,817
Range Width	\$345,713
Mean Std. Error	\$750.55



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: KBWT Total (cont'd)

Cell: D120

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$1,328,105
5%	\$1,365,224
10%	\$1,381,038
15%	\$1,393,350
20%	\$1,403,708
25%	\$1,412,572
30%	\$1,421,525
35%	\$1,430,742
40%	\$1,440,311
45%	\$1,451,309
50%	\$1,461,842
55%	\$1,473,128
60%	\$1,484,843
65%	\$1,496,917
70%	\$1,510,004
75%	\$1,525,245
80%	\$1,541,021
85%	\$1,559,295
90%	\$1,580,848
95%	\$1,610,308
100%	\$1,673,817

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: WGS Management		PBS Number: 11		Total Baseline Dollars (Minimum Case):		\$10,796,285.64				
Evaluator: J. Buckley		Date: 05/02/01		WBS Number: 1.1.M.A						
CAM:		Date:		Control Account Number: MMMA						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost (Maximum Case)	Risk Level	Risk Probability %	Risk Probability Level	Probable Cost (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
WGS Program Management (MMMA1)	1 year schedule delay	Increased project costs	Internal	\$2,000,000.00		3	50	3	\$1,000,000.00	4 Accept. Reduce essential programmatic staffing
LLW Administration (MMMA2)	1 year schedule delay	Increased project costs	Internal	\$500,000.00		2	10	2	\$50,000.00	2 Accept. Reduce staffing or combine with MMMA1
Total:				\$2,500,000.00				Total:	\$1,050,000.00	

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: MMMA Total

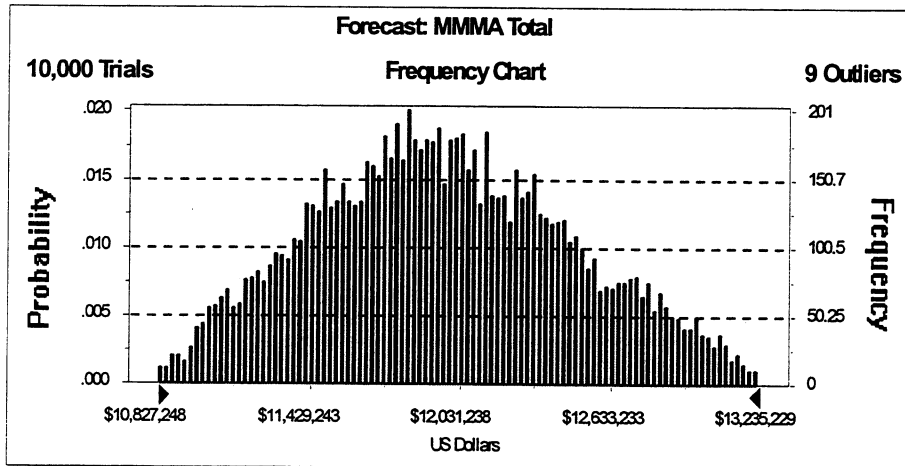
Cell: D135

Summary:

Display Range is from \$10,827,248 to \$13,235,229 US Dollars
 Entire Range is from \$10,806,484 to \$13,282,658 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$5,158

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$11,970,682
Median	\$11,946,083
Mode	---
Standard Deviation	\$515,838
Variance	3E + 11
Skewness	0.16
Kurtosis	2.40
Coeff. of Variability	0.04
Range Minimum	\$10,806,484
Range Maximum	\$13,282,658
Range Width	\$2,476,174
Mean Std. Error	\$5,158.38



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: MMMA Total (cont'd)

Cell: D135

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$10,806,484
5%	\$11,137,164
10%	\$11,293,430
15%	\$11,411,260
20%	\$11,500,118
25%	\$11,589,479
30%	\$11,673,407
35%	\$11,744,601
40%	\$11,813,917
45%	\$11,879,568
50%	\$11,946,083
55%	\$12,015,840
60%	\$12,085,045
65%	\$12,162,587
70%	\$12,252,205
75%	\$12,334,126
80%	\$12,430,486
85%	\$12,541,031
90%	\$12,696,796
95%	\$12,869,907
100%	\$13,282,658

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: WM Operations Site-wide Services		PBS Number: 11		Total Baseline Dollars (Minimum Case):		\$35,937,708			
Evaluator: Jim Buckley		Date: 05/02/01		WBS Number: 1.1.M.B					
CAM:		Date:		Control Account Number: MMMB					
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost (Maximum Case)	Risk Probability %	Risk Probability Level	Probable Cost (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
MMMB1	Waste Acceptance and Characterization (MMMB1)	Inventory mis-characterized because each container isn't opened before shipment	Internal	\$6,000,000.00	5	10	2	\$600,000.00	8 Reduce.
Waste Acceptance and Characterization (MMMB1)	Leaking container or compatibility issue	Shut-down of off-site shipment for up to 18 months and cost of corrective actions	Internal	\$6,000,000.00	5	10	2	\$600,000.00	8 Reduce.
Hardware/Software Problem with SWIFTS (MMMB1)	Inventory control and/or shipment delay	Hold-up of shipments for several weeks while problem is being corrected	Internal	\$100,000.00	2	10	2	\$10,000.00	2 Accept.
MMMB2	Containers (MMMB2)	Fernald-caused failure of a container on the public highways.	Internal	\$6,000,000.00	5	10	1	\$600,000.00	5 Reduce. Increase QA/QC.
Transportation (MMMB2)	Accident involving Fernald shipment	Response and recovery costs	Internal	\$1,000,000.00	3	10	2	\$100,000.00	3
Shipping (MMMB2)	Making shipments that do not comply with DOT regulations.	Adverse publicity and fine by DOT.	Internal	\$270,000.00	2	10	1	\$27,000.00	1 Accept.
MMMB3	Warehousing (MMMB3)	Scheduling delay due to project delays in shipment/disposal	Internal	\$2,000,000.00	3	50	5	\$1,000,000.00	6 Accept.
Warehousing (MMMB3)	Relocation of containers based upon DOE 435.1	Increased need for warehousing oversight and operations/increased project cost	Internal	\$800,000.00	2	20	2	\$160,000.00	2 Accept.
Warehousing (MMMB3)	Changes required by Fernald Storage WAC	Additional project costs	Internal	\$700,000.00	2	20	2	\$140,000.00	2 Accept.
Warehousing (MMMB3)	Insufficient FAT&LC operators for project activities	Delay in schedule/increased project cost	Internal	\$350,000.00	3	60	4	\$210,000.00	5 Reduce. Coordinate through Manpower Planning.
Warehousing (MMMB3)	Recoat flooring in TSS6	Increased baseline costs beyond normal maintenance and costs to relocate waste	Internal	\$250,000.00	2	5	1	\$12,500.00	1 Accept.

Risk/Opportunity Identification and Analysis Form

Project: WM Operations Sitewide Services		PBS Number: 11		Total Baseline Dollars (Minimum Case):					\$35,937,708												
Evaluator: Jim Buckley		Date: 05/02/01		WBS Number: 1.1.M.B																	
CAM:		Date:		Control Account Number: MMMB																	
Project Task		Risk and/or Opportunity		Potential Impact		Internal Or External Driver		Impact Cost (Maximum Case)		Risk Impact Level		Risk Probability %		Risk Probability Level		Probable Cost (Likeliest Case)		Risk Critical Value		Risk Handling Strategy	
Warehousing (MMMB3)	Recoat Plant 1 Pad surface	Increased baseline costs beyond normal maintenance and costs to relocate waste		Internal	\$1,000,000.00	3	20	2	\$200,000.00	2	Accept.										
				Total:		\$24,470,000.00				Total:		\$3,659,500.00									
MMMB1	Waste Acceptance Criteria (WAC) Change (MMMB1)	More stringent WAC implemented by Treatment/Storage/Disposal (TSD) Facility	Sampling or additional documentation for characterization process	External	\$200,000.00	2	10	2	\$20,000.00	2											
MMMB2	Containers (MMMB2)	Requirement to use a new burial site with different waste acceptance criteria.	Selection of new containers for waste that meet the new criteria and repackaging existing containerized waste.	External	\$1,000,000.00	2	10	2	\$100,000.00	2											
Transportation (MMMB2)	Change in DOT regulations increases requirements.	Selection of new containers for waste that meet the new criteria and repackaging existing containerized waste or additional effort involved with preparing shipping documentation.	Selection of new containers for waste that meet the new criteria and repackaging existing containerized waste.	External	\$1,000,000.00	2	10	2	\$100,000.00	2											
Transportation (MMMB2)	Increased fuel or transportation costs.	Additional funding is required to transport materials for final disposition.	Additional funding is required to transport materials for final disposition.	External	\$150,000.00	2	80	5	\$120,000.00	3											
Transportation (MMMB2)	Existing container vendors or carriers are not available.	Additional funding is required to obtain contracts for containers or to transport materials for final disposition.	Additional funding is required to obtain contracts for containers or to transport materials for final disposition.	External	\$200,000.00	2	10	2	\$20,000.00	2											
Warehousing (MMMB3)	Tension support structures are determined inappropriate for existing storage array	Relocation costs increase project costs/retrofit or new construction costs for appropriate storage	Relocation costs increase project costs/retrofit or new construction costs for appropriate storage	External	\$8,000,000.00	4	20	2	\$1,600,000.00	5											

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: MMMB Total

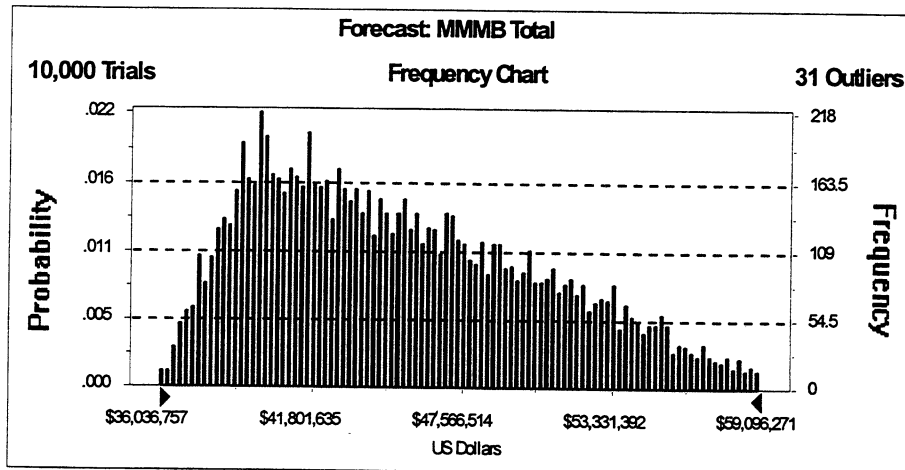
Cell: D137

Summary:

Display Range is from \$36,036,757 to \$59,096,271 US Dollars
 Entire Range is from \$36,032,935 to \$60,049,425 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$53,923

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$45,328,949
Median	\$44,493,552
Mode	---
Standard Deviation	\$5,392,332
Variance	3E + 13
Skewness	0.49
Kurtosis	2.36
Coeff. of Variability	0.12
Range Minimum	\$36,032,935
Range Maximum	\$60,049,425
Range Width	\$24,016,490
Mean Std. Error	\$53,923.32



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: MMMB Total (cont'd)

Cell: D137

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$36,032,935
5%	\$38,037,888
10%	\$38,920,558
15%	\$39,582,570
20%	\$40,165,906
25%	\$40,866,003
30%	\$41,548,108
35%	\$42,202,312
40%	\$42,931,803
45%	\$43,691,156
50%	\$44,493,552
55%	\$45,344,827
60%	\$46,216,223
65%	\$47,130,103
70%	\$48,132,897
75%	\$49,186,414
80%	\$50,386,821
85%	\$51,720,373
90%	\$53,254,814
95%	\$55,260,685
100%	\$60,049,425

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Low Level Waste		PBS Number: 11		Total Baseline Dollars (Minimum Case):		\$6,412,846			
Evaluator: Todd Clark		Date: 03/28/01		WBS Number: 1.1.M.C					
CAM: Buckley		Date:		Control Account Number: MMMC					
Project Task		Risk and/or Opportunity		Potential Impact					
		Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Level	Risk Impact %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Planning	Additional unplanned wastes identified	Internal	\$200,000.00	2	35	3	\$70,000.00	2	Accept Risk, communicate and coordinate schedule
Characterization	Additional sampling and analysis required to complete characterization.	Internal	\$160,000.00	2	20	2	\$32,000.00	2	Accept Risk, identify sampling needs, coordinate effort to meet project schedule
Processing/Packaging	Equipment/vehicle failures affect planned production schedules	Internal	\$130,000.00	2	25	2	\$32,500.00	2	Accept Risk. Maintain critical and routine spare parts inventories.
Processing/Packaging	Additional non-conforming wastes identified during sorting/visuals	Internal	\$600,000.00	2	15	2	\$90,000.00	2	Accept Risk. Fully document assumptions used in preparing baseline.
Processing/Packaging	Weather impacts beyond typical experience	Internal	\$200,000.00	2	20	2	\$40,000.00	2	Accept Risk.
Shipping	Transportation Accident	Internal	\$5,000,000.00	4	10	1	\$500,000.00	3	Accept Risk associated with internal-related risk. Assume external risk can be compensated via carrier insurance.
			Total:				\$764,500.00		

Shipping	Disposal site closure	Significant project delays, additional labor costs associated with retention beyond planned completion, potential to impact successor project plans (based on 3 month extension)	External	\$300,000.00	2	5	1	\$15,000.00	1	
Processing/Packaging	Catastrophic event, such as tornado damage to site	Project shut down (based on 6 months to address event and programs)	External	\$500,000.00	2	10	1	\$50,000.00	1	
Shipping	Innovative transfer of containerized debris to OSDF	Based on 50% of debris inventory to OSDF		(\$1,200,000.00)		50		(\$600,000.00)		

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: MMMC Total

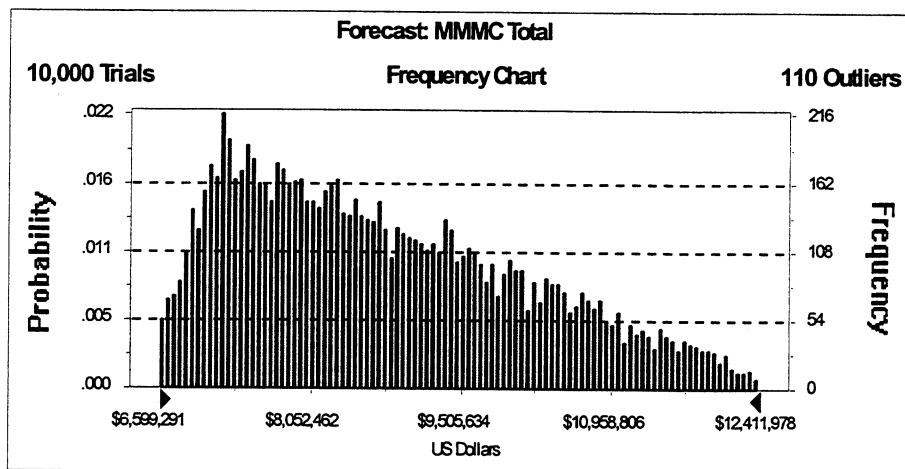
Cell: D139

Summary:

Display Range is from \$6,599,291 to \$12,411,978 US Dollars
 Entire Range is from \$6,440,063 to \$12,694,029 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$14,067

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$8,756,305
Median	\$8,514,169
Mode	---
Standard Deviation	\$1,406,651
Variance	2E + 12
Skewness	0.54
Kurtosis	2.40
Coeff. of Variability	0.16
Range Minimum	\$6,440,063
Range Maximum	\$12,694,029
Range Width	\$6,253,966
Mean Std. Error	\$14,066.51



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: MMMC Total (cont'd)

Cell: D139

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$6,440,063
5%	\$6,904,870
10%	\$7,099,563
15%	\$7,251,638
20%	\$7,417,003
25%	\$7,579,691
30%	\$7,760,844
35%	\$7,933,543
40%	\$8,127,628
45%	\$8,314,961
50%	\$8,514,169
55%	\$8,727,122
60%	\$8,964,026
65%	\$9,217,153
70%	\$9,459,733
75%	\$9,742,163
80%	\$10,064,604
85%	\$10,417,306
90%	\$10,825,673
95%	\$11,418,282
100%	\$12,694,029

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Low Level Waste		PBS Number: 11		Total Baseline Dollars (Minimum Case):		\$2,339,946				
Evaluator: P.Kellogg		Date: 03/27/2001		WBS Number: 1.1.M.D						
CAM: Buckley		Date:		Control Account Number: MMD						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Asbestos shipments to NTS	Traffic accident involving asbestos container	Temporary stop of shipping	Internal	\$1,700,000.00	3	20	3	\$340,000.00	4	Accept Risk
Asbestos shipments to NTS	OSDF rejects sealand	Repackaging required	Internal	\$1,010,000.00	3	40	4	\$404,000.00	5	Accept Risk
				Total:	\$2,710,000.00		Total:	\$744,000.00		
Asbestos shipments to NTS	NTS closure and WAC change	Processing, treatment, packaging and shipment to E.Care	External	\$2,800,000.00	3	10	2	\$280,000.00	3	
Asbestos shipments to NTS	Teamster Strike	Temporary stop of shipping	External	\$100,000.00	2	20	2	\$20,000.00	2	
Asbestos shipments to NTS	Accept increase in shipping risk	Decreased shipping cost	Internal	(\$1,200,000.00)	3	20	3	(\$240,000.00)	4	

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: MMMD Total

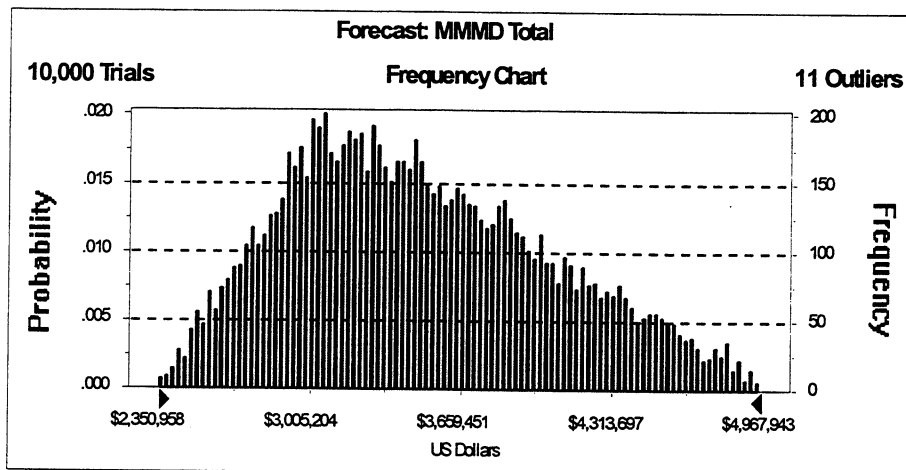
Cell: D141

Summary:

Display Range is from \$2,350,958 to \$4,967,943 US Dollars
 Entire Range is from \$2,350,958 to \$5,026,601 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$5,688

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$3,490,753
Median	\$3,422,127
Mode	---
Standard Deviation	\$568,790
Variance	3E + 11
Skewness	0.40
Kurtosis	2.42
Coeff. of Variability	0.16
Range Minimum	\$2,350,958
Range Maximum	\$5,026,601
Range Width	\$2,675,643
Mean Std. Error	\$5,687.90



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: MMMD Total (cont'd)

Cell: D141

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$2,350,958
5%	\$2,659,662
10%	\$2,789,328
15%	\$2,896,768
20%	\$2,973,760
25%	\$3,049,052
30%	\$3,119,232
35%	\$3,191,127
40%	\$3,266,955
45%	\$3,340,520
50%	\$3,422,127
55%	\$3,498,753
60%	\$3,588,592
65%	\$3,680,279
70%	\$3,786,275
75%	\$3,885,532
80%	\$4,007,387
85%	\$4,146,816
90%	\$4,316,207
95%	\$4,529,442
100%	\$5,026,601

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Low Level Waste		PBS Number: 11		Total Baseline Dollars (Minimum Case):		\$11,786,746	
Evaluator: Rodney Ball		WBS Number: 1.1.M.E					
Date: 03/29/01		Control Account Number: MMME IE2 - Residues to NTS and to SP7					
Date:		Potential Impact		Risk Probability %		Risk Probability Level	
Risk and/or Opportunity		Internal Or External Driver		Impact Cost \$ (Maximum Case)		Probable Cost \$ (Likeliest Case)	
Risk Handling Strategy		Risk Critical Value		Risk		Risk	
Residues to NTS - Internal		Internal		2		25	
Waste Characterization	Characterizations not performed in a timely manner to meet the schedule.	Project schedule delays	Internal	\$100,000.00	2	\$25,000.00	2 Accept Risk, communicate and coordinate schedule
Sampling	Sampling required for waste characterization in addition to the amount estimated.	Moderate to significant schedule delays and project cost growth.	Internal	\$600,000.00	2	\$150,000.00	2 Accept Risk, identify sampling needs, coordinate effort to meet project schedule
Waste Processing	Stop work due to equipment breakdown or manpower shortages.	Project temporary shut down.	Internal	\$100,000.00	2	\$20,000.00	2 Accept Risk, Spare parts inventory & lease agreements
Waste Processing	Stated assumptions exceeded for amount of liquids decanted, prohibited items, rejected containers, etc.	Project schedule delays	Internal	\$400,000.00	2	\$100,000.00	2 Accept Risk
Waste Processing & Shipment	Work incident of a nature significant to external entities.	Program shutdown with associated cost and schedule implications.	Internal	\$600,000.00	2	60000	2 Accept Risk, perform work safely and in compliance with rules, regulations, & DOE Orders
Residues to SP7 - Internal		Internal		2		25	
Waste Characterization	Characterizations not performed in a timely manner to meet the schedule.	Project schedule delays	Internal	\$80,000.00	2	\$20,000.00	2 Accept Risk, communicate and coordinate schedule
Sampling	Additional sampling required for waste characterization	Moderate to significant schedule delays and project cost growth	Internal	\$240,000.00	2	\$60,000.00	2 Accept Risk, identify sampling needs, coordinate effort to meet project schedule
Waste Placement on SP-7	Stated assumptions exceeded for amount of prohibited items, rejected containers, etc.	Project schedule delays	Internal	\$400,000.00	2	\$100,000.00	2 Accept Risk
Waste Placement on SP-7	Stop work due to adverse weather conditions.	Project temporary shut down	Internal	\$80,000.00	2	\$8,000.00	2 Accept Risk, Schedule work for the appropriate time of year

Risk/Opportunity Identification and Analysis Form

Project: Low Level Waste		PBS Number: 11		Total Baseline Dollars (Minimum Case):		\$11,786,746				
Evaluator: Rodney Bell		Date: 03/29/01		WBS Number: 1.1.M.E						
CAM: Buckley		Date:		Control Account Number: MMME (E2 - Residues to NTS and to SP7)		R1-D-656				
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Waste Placement on SP-7	Stop work due to equipment breakdown, or manpower shortages.	Project temporary shut down	Internal	\$80,000.00		2	20	2	\$16,000.00	2 Accept Risk, Spare parts inventory & lease agreements
Waste Placement on SP-7	Work incident of a nature significant to external entities.	Program shutdown with associated cost and schedule implications	Internal	\$240,000.00		2	10	2	\$24,000.00	2 Accept Risk, perform work safely and in compliance with rules, regulations, & DOE Orders
<div style="text-align: right;">Total: \$4,168,200.00</div>										
<div style="text-align: right;">Total: \$592,640.00</div>										
Low Level Waste removal	Waste to WPRAP in containers for bulk processing (shredder)	Schedule acceleration and cost avoidance (xxx cu.ft.)	Internal	(\$1,200,000.00)		3	30	2	(\$360,000.00)	3
Residues to NTS - External	Additional container types required for shipping	Project cost and schedule growth	External	\$1,200,000.00		3	40	2	\$120,000.00	2
Shipment to NTS - R1-D-656	NTS closure or change to the WAC.	Processing, treatment, packaging and shipment to another approved site.	External	\$2,800,000.00		3	10	2	\$280,000.00	2
Residues to SP7 - External	Envirocare closure or change to the WAC.	Processing, treatment, packaging and shipment to meet the NTS WAC	External	\$2,800,000.00		3	10	2	\$280,000.00	3

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: MMME Total

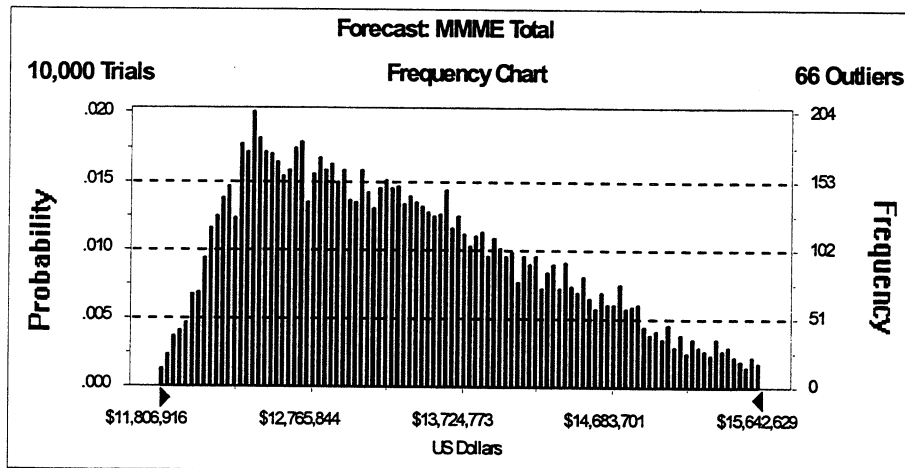
Cell: D143

Summary:

Display Range is from \$11,806,916 to \$15,642,629 US Dollars
 Entire Range is from \$11,806,916 to \$15,921,524 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$9,049

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$13,361,036
Median	\$13,230,222
Mode	---
Standard Deviation	\$904,946
Variance	8E + 11
Skewness	0.54
Kurtosis	2.47
Coeff. of Variability	0.07
Range Minimum	\$11,806,916
Range Maximum	\$15,921,524
Range Width	\$4,114,608
Mean Std. Error	\$9,049.46



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: MMME Total (cont'd)

Cell: D143

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$11,806,916
5%	\$12,144,386
10%	\$12,286,265
15%	\$12,396,015
20%	\$12,499,533
25%	\$12,615,834
30%	\$12,726,100
35%	\$12,848,931
40%	\$12,968,996
45%	\$13,098,537
50%	\$13,230,222
55%	\$13,358,806
60%	\$13,498,971
65%	\$13,643,808
70%	\$13,806,407
75%	\$13,983,936
80%	\$14,188,506
85%	\$14,411,573
90%	\$14,691,775
95%	\$15,051,022
100%	\$15,921,524

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Low Level Waste		PBS Number: 11		Total Baseline Dollars (Minimum Case): \$1,101,120						
Evaluator: Den Herder		Date: 03/20/01								
CAM: Buckley		Date:								
Control Account Number: MMMF										
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Waste Placement on SP-7	Heavy Equipment down time	Project temporary shut down	Internal	\$100,000.00	2	20	2	\$20,000.00	2	Accept Risk, Spare parts inventory & lease agreements
Waste Placement on SP-7	Lack of Waste Characterization support	Project field delay two months	Internal	\$200,000.00	2	50	3	\$100,000.00	2	Accept Risk
Waste Placement on SP-7	Estimate assumptions exceeded for secondary waste	Project field delay and cost growth for waste treatment	Internal	\$500,000.00	2	15	2	\$75,000.00	2	Accept Risk
				Total:	\$800,000.00		Total:	\$195,000.00		
Waste Placement on SP-7	Envirocare closure or change to the WAC	Processing, treatment, packaging and shipment to meet the NTS WAC	External	\$2,800,000.00	3	10	2	\$280,000.00	3	
Waste Placement on SP-7	Catastrophic event	Project shut down six months	External	\$600,000.00	2	20	2	\$120,000.00	2	
Low Level Waste removal	Waste to WPRAP in containers for bulk processing (shredder)	Schedule acceleration and cost avoidance (50000 cu.ft.)	Internal	(\$1,200,000.00)	3	30	2	(\$360,000.00)	3	

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: MMMF Total

Cell: D145

Summary:

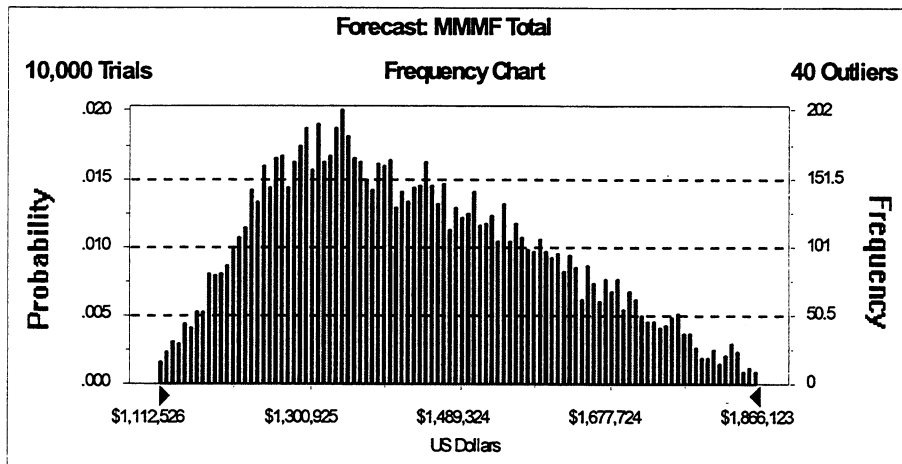
Display Range is from \$1,112,526 to \$1,866,123 US Dollars

Entire Range is from \$1,106,037 to \$1,894,225 US Dollars

After 10,000 Trials, the Std. Error of the Mean is \$1,687

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$1,432,038
Median	\$1,409,896
Mode	---
Standard Deviation	\$168,658
Variance	#####
Skewness	0.41
Kurtosis	2.40
Coeff. of Variability	0.12
Range Minimum	\$1,106,037
Range Maximum	\$1,894,225
Range Width	\$788,188
Mean Std. Error	\$1,686.58



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: MMMF Total (cont'd)

Cell: D145

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$1,106,037
5%	\$1,190,361
10%	\$1,227,341
15%	\$1,252,617
20%	\$1,276,311
25%	\$1,298,659
30%	\$1,320,030
35%	\$1,340,387
40%	\$1,361,735
45%	\$1,386,270
50%	\$1,409,896
55%	\$1,436,982
60%	\$1,461,643
65%	\$1,490,564
70%	\$1,520,548
75%	\$1,551,931
80%	\$1,587,526
85%	\$1,627,359
90%	\$1,675,639
95%	\$1,738,872
100%	\$1,894,225

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Low Level Waste		PBS Number: 11		Total Baseline Dollars (Minimum Case):		\$2,483,808				
Evaluator: Honigford, L.		Date: 03/28/01		WBS Number: 1.1.M.G						
CAM: Buckley		Date:		Control Account Number: MMMG						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Planning	Unanticipated response requirements to oversite groups	Schedule Delay	Internal	\$200,000.00		2	40	3	\$80,000.00	2 Accept
Packaging	> 2% unacceptable waste	Schedule delay, additional characterization, additional treatment requirements	Internal	\$200,000.00		2	20	2	\$40,000.00	2 Accept
Packaging	Unanticipated Unacceptable package encountered	Additional repackaging, schedule delay, package procurement	Internal	\$50,000.00		1	25	2	\$12,500.00	1 Accept
Packaging	Manpower Restrictions/Labor Restrictions	Schedule delay	Internal	\$100,000.00		2	30	2	\$30,000.00	2 Accept
Packaging	Existing packaging configuration more difficult to manage than expected	Schedule delays, new equipment requirements, replanning	Internal	\$200,000.00		2	30	3	\$60,000.00	2 Accept
Packaging	Fire	Schedule delay, replanning, equipment cost	Internal	\$200,000.00		2	10	2	\$20,000.00	2 Accept
Packaging	Absorbent requirements greater than anticipated	Higher material costs, longer packaging duration	Internal	\$200,000.00		2	30	3	\$60,000.00	2 Accept
Packaging	Significant Adverse weather impacts beyond normal	Schedule delay	Internal	\$100,000.00		2	20	2	\$20,000.00	2 Accept
Shipping	FEMP Shipping Program Shutdown	Schedule delay, additional activities to address shutdown issue	Internal	\$600,000.00		2	10	2	\$60,000.00	2 Accept
Total:				\$1,850,000.00					\$382,500.00	

Shipping	NTS facility shutdown	Schedule delay, identification of alternative disposal facilities, disposal cost, new program development	External	\$1,200,000.00	3	5	1	\$60,000.00	2
Shipping	Accelerate shipment of Mixed waste	Schedule Acceleration	Internal	(\$300,000.00)	2	30	3	(\$90,000.00)	2

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: MMMG Total

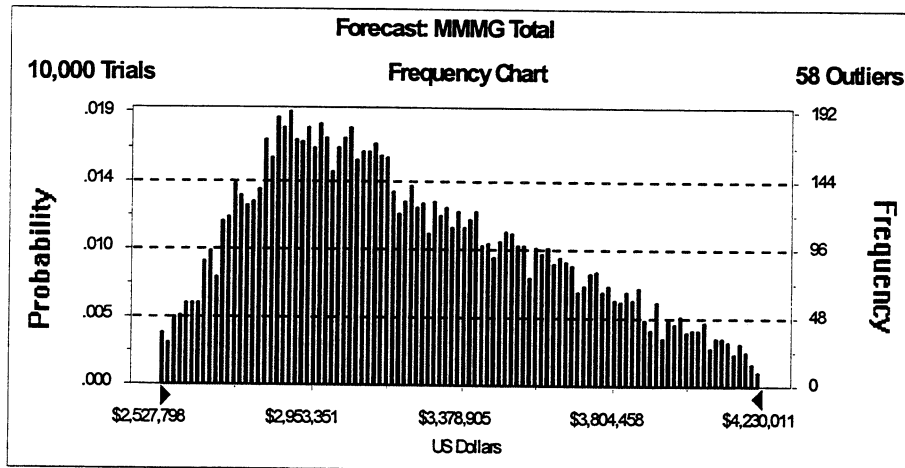
Cell: D147

Summary:

Display Range is from \$2,527,798 to \$4,230,011 US Dollars
 Entire Range is from \$2,496,303 to \$4,332,706 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$4,023

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$3,232,207
Median	\$3,161,684
Mode	---
Standard Deviation	\$402,325
Variance	2E + 11
Skewness	0.49
Kurtosis	2.40
Coeff. of Variability	0.12
Range Minimum	\$2,496,303
Range Maximum	\$4,332,706
Range Width	\$1,836,403
Mean Std. Error	\$4,023.25



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: MMMG Total (cont'd)

Cell: D147

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$2,496,303
5%	\$2,674,579
10%	\$2,750,239
15%	\$2,814,065
20%	\$2,864,961
25%	\$2,910,077
30%	\$2,959,047
35%	\$3,007,788
40%	\$3,059,072
45%	\$3,109,380
50%	\$3,161,684
55%	\$3,225,040
60%	\$3,291,872
65%	\$3,362,172
70%	\$3,434,694
75%	\$3,518,984
80%	\$3,610,387
85%	\$3,704,124
90%	\$3,826,589
95%	\$3,985,531
100%	\$4,332,706

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Operations		Date:		1.1.N.A		Total Baseline Dollars (Minimum Case):		\$95,822,706	
Evaluator: Multiple		Date:		Control Account Number: NAAA		Potential Impact		Risk Handling Strategy	
CAM: Multiple		Date:		Internal Or External Driver		Impact Cost \$ (Maximum Case)		Risk Probability Level	
Project Task		Risk and/or Opportunity		Risk Impact Level		Risk Probability %		Risk Cost \$ (Likeliest Case)	
NAAA	Legal Affairs (NAAAA)	Critical Project slips 1 year	Additional labor/materials / supplies/ outside counsel/ travel costs for 1 year	Internal	\$100,000	3	50	3	4 Accept
NAAA	Project Video/Graphics Support (Multimedia Visual Services) (NAAAB)	Fire/Water damage to Springdale Office Complex. Result - loss of some or all internal graphics and video production capabilities.	6 month down- time to replace equipment. Less than 1 month to shift to outside suppliers.	Internal	\$650,000	2	20	2	2 Accept
NAAA	Public Affairs Support (NAAAAB)	Critical Project slips 1 year	Additional support costs incurred to the project by extending final closure date	Internal	\$1,600,000	3	50	3	4 Accept
NAAA	Internal Audit (NAAAC)	Critical Project slips 1 year	Internal Audit staff will need to support the closure contract for two additional years. Personnel costs plus additional support costs must be budgeted.	Internal	\$480,000	3	50	3	4 Accept Risk
NAAA	Industrial Relations (NAAAD)	First year of new site closure Collective Bargaining Agreements for both site wage work forces. The FAT&LC and IGUA contracts end in 2003. Additional years covered through baseline.	Work Scope flexibility and operations	Internal	\$498,000	3	50	4	5 Reduce
NAAA	Industrial Relations (NAAAD)	Critical project will slip 1 year	Extension of Labor Costs	Internal	\$409,000	3	50	3	4 Accept
NAAA	Office of the President (NAAAE)	Critical Project slips 1 year	Three Executive Management personnel will be needed for one (1) additional year to support the closure contract.	Internal	\$551,800	3	50	3	4 Accept
NAAA	Project Controls (NAAAF)	Critical Projects slip 1 year	1 extra year of PC support.	Internal	\$2,007,000	3	50	3	4 Accept
NAAA	Project Controls (NAAAF) One to Several Tasks within NAAAF.	Unanticipated, but necessary, Overtime efforts.	As many as 220 annual OT hours have been typical.	Internal	\$51,000	1	50	3	1 Accept
NAAA	Project Controls (NAAAF) One to Several Tasks within NAAAF.	Commercial Software or Hardware Reconfigurations.	+ 5% (max) of Total Annual Costs	Internal	\$100,000	1	50	3	1 Accept
NAAA	Finance (NAAAG)	Computer support would be interrupted or unavailable. Loss of the computer would render Finance without the ability to pay employees paychecks, pay vendor invoices, issue customer invoices to the DOE, assist program support with financial data, or respond to DOE or DCAA inquiries.	Rent equipment necessary and subcontract help necessary to remain operational. Overtime for any manual check writing. Other costs to recover from the problems.	Internal	\$500,000	2	20	2	2 Accept - Finance will work with the Management group to insure backup systems are kept in a ready mode. This will insure the lowest possible down time in

Project: Operations		PBS Number: 12		Total Baseline Dollars (Minimum Case): \$95,822,706															
Evaluator: Multiple		WBS Number:		1.1.N.A															
CAM: Multiple		Date:																	
Date:		Control Account Number: NAAA																	
Project Task		Risk and/or Opportunity		Potential Impact		Internal Or External Driver		Impact Cost \$ (Maximum Case)		Risk Level		Risk Probability %		Risk Probability Level		Risk Critical Value		Risk Handling Strategy	
Finance (NAAA)	Contract will be extended for one (1) year due to funding requirements.	Twenty Four (24) Finance personnel will be needed for an additional year to support the closure contract. Additional support items such as materials and travel and training must be budgeted for this additionally.		Internal	\$2,100,000	3	50	3	\$1,050,000	4	Accept - Finance will work with Project Controls to assure funding is available to maintain a fully functioning Finance staff.								
NAAA	Contracts & Acquisitions (NAAA)	Claims against insuranc with our deductible	Claims exceed budgeted amount	Internal	\$1,000,000	2	10	1	\$100,000	1	Accept								
NAAA	Contracts & Acquisitions (NAAA)	Site Completion date extended out	Labor Costs extended out	Internal	\$180,000	3	50	3	\$90,000	4	Accept								
NAAA	Cost & Schedule Improvements (NAAA)	Critical Project slips 1 year	Five Cost & Schedule personnel will be needed for one (1) additional years to support the closure contract.	Internal	\$736,600	3	50	3	\$368,300	5	Accept - we will work with Project Controls to assure funding is available to maintain a fully functioning Cost & Schedule Improvements staff.								
NAAA	G&A Cost (NAAA)	NONE																	
NAAA	Transition Cost (NAAA)	NONE																	
NAAA	Contract Insurance (NAAA)	NONE																	
NAAA	Additional TP Holiday (NAAA)	NONE																	
				Total:		\$10,943,400		Total:		\$4,726,700									
NAAA	Legal Affairs (NAAA)	Litigation or arbitration cases result in outside counsel costs in excess of historically based estimate due to greater number or greater complexity of cases	Litigation must be defended or plaintiff wins entire amount demanded by default. Impact is greater cost for outside counsel and greater impact on internal resources needed to defend against litigation	External	\$4,500,000	3	30	3	\$1,350,000	4									
NAAA	Industrial Relations (NAAA)	FAT&LC Strike during Agreement renegotiation	Extends project by one month	External	\$25,000,000	5	10	1	\$2,500,000	5									
NAAA	Project Controls (NAAA) One to Several Tasks within NAAA	Client-directed interpretation and/or actual changes to Order 413.3, Manual 413.X, or other.	- 15% (max) of Total annual costs	External	\$301,000	3	70	4	\$210,700	5									
NAAA	Project Controls (NAAA) One to Several Tasks within NAAA	Client-directed interpretation and/or actual changes to Order 413.3, Manual 413.X, or other.	- 15% (max) of Total Annual Costs	External	-\$301,000	1	20	2	-\$60,200	1									

Risk/Opportunity Identification and Analysis Form

Project: Operations		PBS Number: 12		Total Baseline Dollars (Minimum Case):		\$95,822,706				
Evaluator: Multiple		WBS Number:		1.1.N.A						
CAM: Multiple		Control Account Number: NAAA								
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Project Controls (NAAAF) One to Several Tasks within NAAAF.	Commercial Software or Hardware Reconfigurations.	- 5% (max) of Total Annual Costs	Internal	-\$100,000	1	20	2	-\$20,000	1	
NAAAH										
Contracts & Acquisitions (NAAAH) Old Prime Contract Close Out	Close out costs may exceed allotted \$25M	Excess costs will come from new year funding reducing	External	\$14,000,000	2	11	2	\$1,540,000	2	
Contracts & Acquisitions (NAAAH) Teaming Partner G&A Rates	Actual costs exceed billed amounts	Costs will be reimbursed from unbudgeted funds	External	\$5,000,000	3	10	1	\$500,000	2	
Contracts & Acquisitions (NAAAH) Change in Laws Regulations	New requirements are imposed	May increase operation costs or require implementation costs	External	TBD	2	10	5	TBD	8	

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: NAAA Total

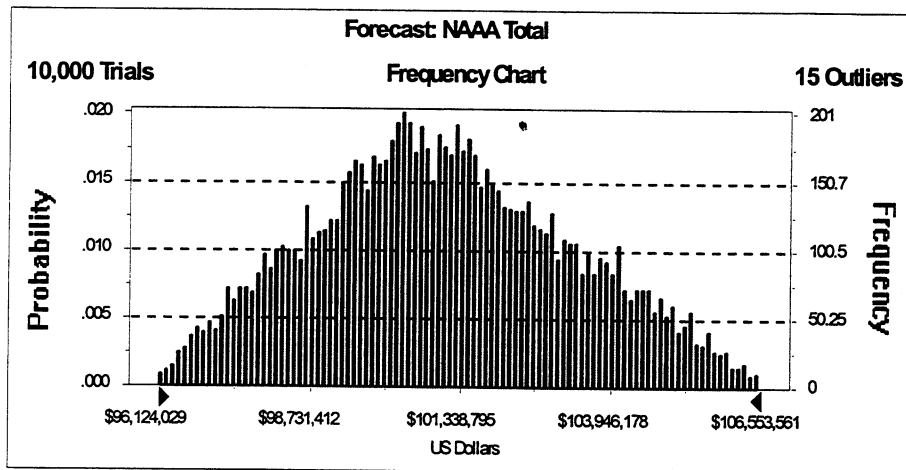
Cell: D150

Summary:

Display Range is from \$96,124,029 to \$106,553,561 US Dollars
 Entire Range is from \$95,873,026 to \$106,553,561 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$22,244

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$101,052,343
Median	\$100,950,713
Mode	---
Standard Deviation	\$2,224,391
Variance	5E + 12
Skewness	0.14
Kurtosis	2.40
Coeff. of Variability	0.02
Range Minimum	\$95,873,026
Range Maximum	\$106,553,561
Range Width	\$10,680,535
Mean Std. Error	\$22,243.91



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: NAAA Total (cont'd)

Cell: D150

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$95,873,026
5%	\$97,474,186
10%	\$98,119,229
15%	\$98,633,425
20%	\$99,076,621
25%	\$99,450,979
30%	\$99,782,339
35%	\$100,095,198
40%	\$100,367,496
45%	\$100,639,516
50%	\$100,950,713
55%	\$101,244,497
60%	\$101,527,630
65%	\$101,853,326
70%	\$102,228,471
75%	\$102,610,587
80%	\$103,061,797
85%	\$103,597,849
90%	\$104,141,275
95%	\$104,921,221
100%	\$106,553,561

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Administration		Date: 3/23/01		PBS Number: 12		Total Baseline Dollars (Minimum Case):		\$174,124,547	
Evaluator: Multiple		Date: 3/23/01		WBS Number: 1.1.N.B					
CAM: Gwen Nalls		Date: 3/23/01		Control Account Number: NBAA					
Project Task		Risk and/or Opportunity		Potential Impact		Internal Or External Driver		Impact Cost \$ (Maximum Case)	
NBAAE									
Administrative Services (NBAAE)		Potential for leased equipment being damaged or contaminated		Increase costs at end of contract to pay for copier (estimate is for the potential for 3 machines to be damaged or contaminated)		Internal		\$46,000	
								1	
								10	
								2	
								\$4,800	
								2	
								Accept	
Administrative Services (NBAAE)		Critical Project Slips 1 year		Additional labor/materials/subcontract costs for 1 year		Internal		\$179,300	
								3	
								50	
								\$89,650	
								4	
								Accept	
NBAAF									
IM (NBAAF)		Additional off-site location will be setup to house employees.		There are significant costs associated with supporting remote sites - phones, data communications, & support.		Internal		\$1,040,000	
								3	
								20	
								2	
								\$208,000	
								3	
								Utilize existing facilities & trailers on site.	
IM (NBAAF)		Major subcontracts must adhere to FF standards and will require IM support.		The current assumption is that all major subcontracts will do their own IS support. If not, this will add about 200 users.		Internal		\$5,000,000	
								3	
								30	
								3	
								\$1,500,000	
								6	
								Do not change subcontracts.	
IM (NBAAF)		Critical Project slips 1 year		Additional costs for resources for 1 year		Internal		\$1,300,000	
								3	
								50	
								\$650,000	
								4	
								Accept	
NBAAAG									
Document Management Program Services (NBAAAG)		Fluor Fernald self-performs project scope (i.e., WPRAP & Silos) currently performed or planned to be performed by subcontractors.		(1)ECDC will take over doc. Control from subcontractor, increasing ECDC scope.		Internal		\$1,663,000	
								3	
								50	
								3	
								\$831,500	
								4	
								Use overtime & interns in lieu of increasing FTEs; archive files as received; issue fewer hard copies of documents	
Document Management Program Services (NBAAAG)		Critical Project slips 1 year		Extend budget for staffing, space, equipment and supplies for one year.		Internal		\$2,419,000	
								3	
								50	
								3	
								\$1,209,500	
								4	
								Accept	
NBAAH									
Administrative Mgmt (NBAAH)		Critical Project slips 1 year		Additional Labor/Materials/Subcontract costs for a 1 year		Internal		\$145,000	
								3	
								50	
								\$72,500	
								4	
								Accept	
NBAAI									
Records Management (NBAAI)		Critical Path Slippage by 12 months		Prolongs Final Dispositioning of Records		Internal		\$730,900	
								3	
								50	
								3	
								\$365,450	
								4	
								Accept	
Records Management (NBAAI)		Discovery of additional contaminated records		Resources will have to be diverted for current closure activity process to these records		Internal		\$119,300	
								1	
								30	
								1	
								\$35,790	
								2	
								Accept	
NBAAJ									
Litigation - HR/RIE (NBAAJ)		See Legal							
Human Resources (NBAAJ)		Critical Project Slips 1 year		Additional labor/materials/subcontract costs for 1 year		Internal		\$435,100	
								3	
								50	
								\$217,550	
								4	
								Accept	
NBAAK									

Project: Administration		PBS Number: 12		Total Baseline Dollars (Minimum Case):		\$174,124,547				
Evaluator: Multiple		Date: 3/23/01		WBS Number: 1.1.N.B						
CAM: Gwen Nalls		Date: 3/23/01		Control Account Number: NBAA						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Training (NBAAQI)	Change in Training work scope to include career development	Increased personnel or contract costs to meet new requirements.	Internal	\$420,000		2	30	3	\$126,000	2 Accept Risk
Training (NBAAQI)	Critical events, including individual performance failures, that have Critical Risk Impact on one or more projects,	Increased personnel costs or schedule impact to implement wide ranging corrective action plans. e.g., a half hour briefing for all site personnel requires approximately 1 FTE to accomplish.	Internal	\$480,000	2		80	5	\$384,000	3 Develop a contingency plan
Training (NBAAQI)	Critical project schedule slip of 1 year delay or personnel turnover that requires retraining events.	Increased personnel costs to provide training that otherwise would be conducted only once per individual originally assigned to the project.	Internal	\$108,800	3		50	3	\$54,400	4 Maintain flexibility, coordinate requirements with other project resources, consider vendor training instead of contractor to fill the gaps.
NBAAS Diversity Programs (NBAAS)	Critical Projects slips 1 year	Additional Labor/Materials/ Subcontract costs for a 1 year	Internal	\$145,000	3		50	3	\$72,500	4 Accept
NBAAF None										
				Total:	\$16,714,400			Total:	\$7,405,940	
NBAAF IM (NBAAF)	Off-site locations will be consolidated.	Significant savings in voice & data telecommunications, plus support.	Internal	-\$1,040,000	3		70	4	-\$728,000	
IM (NBAAF)	Disaster in Springdale Computer Room after YR2001	When we relocate site computer room to Springdale, we will have no backup facility (estimate FY2001 to relocate).	External	\$500,000	4		5	1	\$25,000	8
IM (NBAAF)	FD Corp. standards & strategies will have to be adopted by FF.	FD Corp. migrates to certain software to maintain competitive advantage. If FF follows, they would increase costs in the last 5 years of the project, where we would otherwise freeze upgrades.	External	\$200,000	2		30	3	\$60,000	6

Risk/Opportunity Identification and Analysis Form

Project: Administration		PBS Number: 12		Total Baseline Dollars (Minimum Case):		\$174,124,547				
Evaluator: Multiple		Date: 3/23/01		WBS Number: 1.1.N.B						
CAM: Gwen Nalls		Date: 3/23/01		Control Account Number: NBAA						
Project Task		Risk and/or Opportunity		Potential Impact		Internal Or External Driver				
				Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
IM (NBAAF)	DOE standards will have to be adopted by FF.	As DOE migrates to different technologies, if FF wants to keep pace, there will be a cost increase to do this.	External	\$200,000	2	30	3	\$60,000	6	
IM (NBAAF)	Technology advances at a pace of 2-3 years instead of 3-4 years.	May have to do a desktop refresh 3 times before the end of the project instead of 2 times.	External	\$900,000	2	10	2	\$90,000	5	
IM (NBAAF)	Moderate disaster through intrusion or virus attack.	Loss of productivity while systems are being built.	External	\$450,000	2	10	2	\$45,000	9	
IM (NBAAF)	A primary support vendor goes out of business or changes strategy.	This could cause us to procure new hardware of software in order to maintain support.	External	\$500,000	2	30	3	\$150,000	8	
NBAAL	Records moratorium is NOT lifted	Need to lease additional storage space or ship records to FRC and incur storage cost \$3.28 per box/year.	External	\$400,000	2	50	3	\$7,107,940	2	
NBAAG	PROCEDURE DISTRIBUTION: Opportunity to reduce ECDC by 1 FTE. This takes into account need to increase # FTEs to support electronic document maintenance AND DECREASE SUPPORT TO PAPER DISTRIBUTION. ODC savings included. ENGINEERING DESIGN DISTRIBUTION: Assume no net change based on current planning scope for KM.		Internal	-\$317,510	2	3	2	-\$317,510	2	

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: NBAA Total

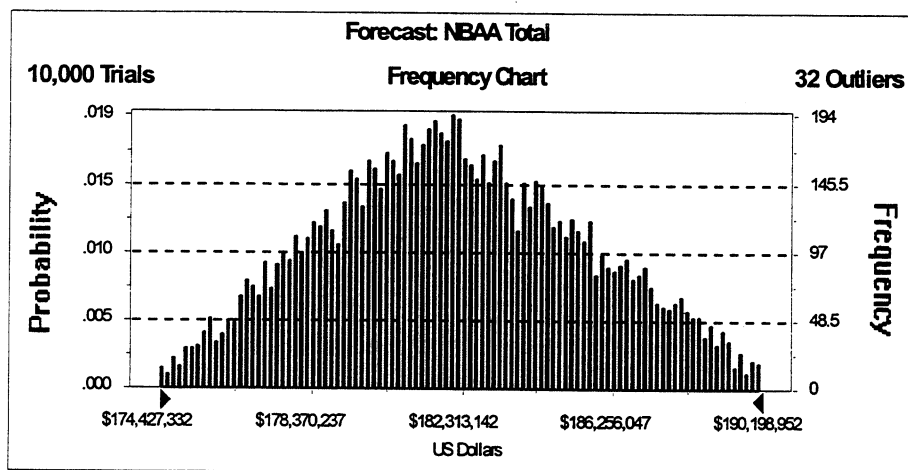
Cell: D152

Summary:

Display Range is from \$174,427,332 to \$190,198,952 US Dollars
 Entire Range is from \$174,208,882 to \$190,763,323 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$34,188

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$182,169,168
Median	\$182,024,013
Mode	---
Standard Deviation	\$3,418,769
Variance	1E+13
Skewness	0.12
Kurtosis	2.40
Coeff. of Variability	0.02
Range Minimum	\$174,208,882
Range Maximum	\$190,763,323
Range Width	\$16,554,441
Mean Std. Error	\$34,187.69



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: NBAA Total (cont'd)

Cell: D152

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$174,208,882
5%	\$176,665,689
10%	\$177,661,253
15%	\$178,442,298
20%	\$179,117,642
25%	\$179,670,866
30%	\$180,203,519
35%	\$180,704,474
40%	\$181,156,255
45%	\$181,593,646
50%	\$182,024,013
55%	\$182,454,276
60%	\$182,953,662
65%	\$183,446,933
70%	\$184,027,586
75%	\$184,587,935
80%	\$185,255,245
85%	\$186,019,591
90%	\$186,924,447
95%	\$188,069,858
100%	\$190,763,323

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Environmental Safety, Health & Quality		PBS Number: 12		Total Baseline Dollars (Minimum Case):		\$73,421,173				
Evaluator: Gartrell		Date: 4/23/01		WBS Number: 1.1.N.C						
CAM: Gartrell		Date: 4/23/01		Control Account Number: NCAA						
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
NCAA										
Occupational S & H (NCAAA)	Critical Projects slips 1 year	Additional labor/Materials/subcontract	Internal	\$432,000	3	50	3	\$216,000	4	Accept
Occupational S & H (NCAAA)	Non-Critical Projects slips 1 year	Additional labor/Materials/subcontract for extended oversight (1/4 staff) on Project similar to WRRAP in FY04	Internal	\$108,000	3	95	5	\$102,800	6	Accept
NCAAB										
ES&H Rad Control (NCAAB)	Critical Project slips 1 year	Additional Labor/Material costs for 1 year based on final year of project	Internal	\$300,000	3	50	3	\$150,000	4	Accept
NCAAC										
Medical Department (NCAAC)	Critical Projects slips 1 year	Additional labor/Materials/subcontract	Internal	\$1,140,000	3	50	3	\$570,000	4	Accept
NCAAK										
ConOps/PreOp (NCAAK)	Critical Project slips 1 year	continue operation of dept. one year	Internal	\$650,000	3	50	3	\$325,000	4	Accept
NCAAL										
ESH&Q Administration (NCAAL)	1 year slip	continue operation for additional year	Internal	\$500,000	3	50	3	\$250,000	4	Accept
NCAAM										
Environmental Compliance (NCAAM) Oversight & Support	Critical Project slips 1 year	EC staffing (8.8 FTEs in FY04) and related costs would be extended one year. No special equipment/facility/subcontract requirements for EC - these would be addressed by the implementing projects.	Internal	\$880,000	3	50	3	\$440,000	4	Accept
Environmental Compliance (NCAAM) Regulatory milestones	Schedule slippages could result in missed or delayed milestones.	Potential penalties/fines from regulatory agencies/courts.	Internal	\$100,000	2	20	2	\$20,000	2	Reduce-Continuing dialog and negotiations with regulators will continue to be a high priority for the EEMP
NCAAP										
ESH&Q Integration (NCAAP)	Critical Project slips 1 year	Additional Labor/Materials/Subcontractors costs for 1 year between 2004 and 2005	Internal	\$275,000	3	50	3	\$137,500	4	Accept
NCAAE										
Emergency Response (NCAAE)	Critical Projects slips 1 year	Additional labor/ materials (ambulance)/ subcontracts for 1 year	Internal	\$760,000	3	50	3	\$380,000	4	Accept

Risk/Opportunity Identification and Analysis Form

Project: Environmental Safety, Health & Quality		PBS Number: 12		Total Baseline Dollars (Minimum Case):		\$73,421,173		
Evaluator: Gartrell		Date: 4/23/01		WBS Number: 1.1.N.C				
CAM: Gartrell		Date: 4/23/01		Control Account Number: NCAA				
Risk and/or Opportunity		Potential Impact						
Project Task	Internal Or External Driver	Impact Cost \$ (Maximum Case)	Risk Impact Level	Risk Probability %	Risk Probability Level	Probable Cost \$ (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Communications Center (NCAAE)	Critical Projects slips 1 year							
	Maintenance/ Upgrades to equipment not already covered in moving Comm Center	\$50,000	3	50	3	\$25,000	4	Accept
Emergency Preparedness (NCAAE)	Critical Projects slips 1 year							
	Additional labor/ materials/ subcontracts for 1 year	\$200,000	3	50	3	\$100,000	4	Accept
NCAAH	Critical Project slips 1 year							
	Increased Labor Cost	\$900,000	3	50	3	\$450,000	4	Accept
Quality Assurance (NCAAH)	FY03 PAAA Violations							
	Fines	\$250,000	2	25	2	\$62,500	2	Accept
Total:		\$6,545,000				\$3,228,600		

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: NCAA Total

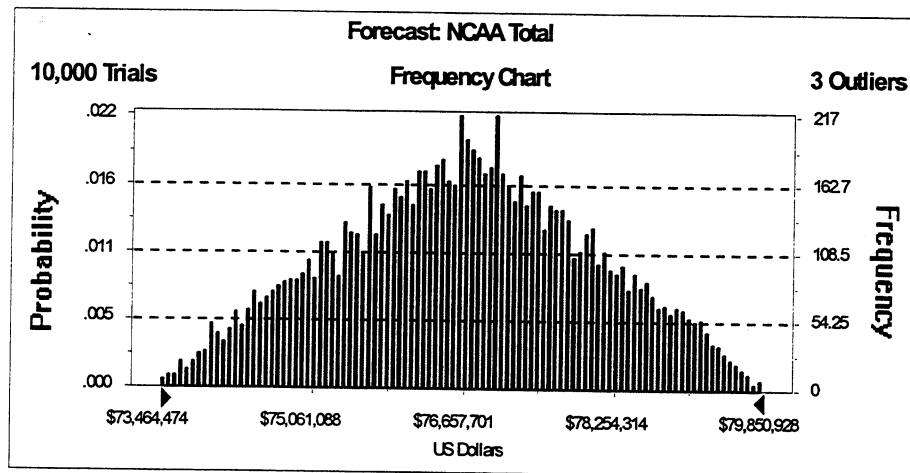
Cell: D154

Summary:

Display Range is from \$73,464,474 to \$79,850,928 US Dollars
Entire Range is from \$73,464,474 to \$79,908,559 US Dollars
After 10,000 Trials, the Std. Error of the Mean is \$13,401

Statistics:

	Value
Trials	10000
Mean	\$76,671,434
Median	\$76,680,608
Mode	---
Standard Deviation	\$1,340,129
Variance	2E + 12
Skewness	-0.01
Kurtosis	2.38
Coeff. of Variability	0.02
Range Minimum	\$73,464,474
Range Maximum	\$79,908,559
Range Width	\$6,444,085
Mean Std. Error	\$13,401.29



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: NCAA Total (cont'd)

Cell: D154

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$73,464,474
5%	\$74,426,990
10%	\$74,833,766
15%	\$75,174,805
20%	\$75,460,452
25%	\$75,706,791
30%	\$75,934,670
35%	\$76,139,146
40%	\$76,328,332
45%	\$76,508,111
50%	\$76,680,608
55%	\$76,847,141
60%	\$77,016,268
65%	\$77,210,068
70%	\$77,411,100
75%	\$77,635,180
80%	\$77,873,587
85%	\$78,151,113
90%	\$78,492,270
95%	\$78,930,443
100%	\$79,908,559

End of Forecast

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: NDAA Total

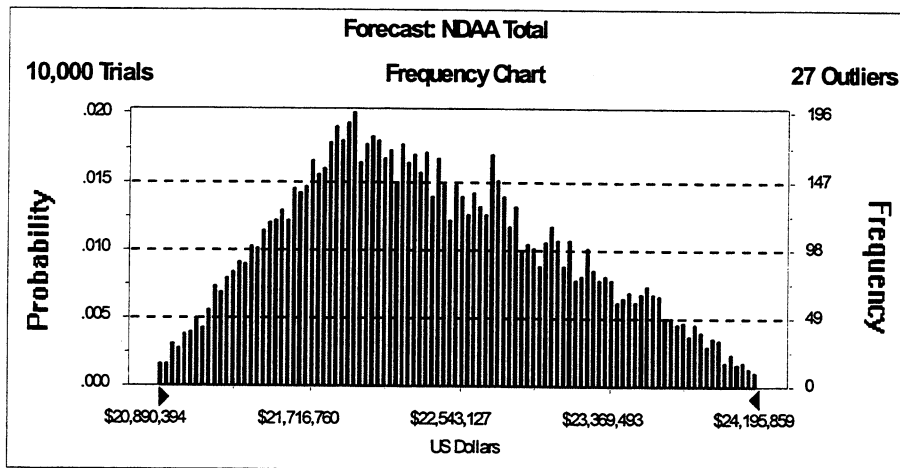
Cell: D156

Summary:

Display Range is from \$20,890,394 to \$24,195,859 US Dollars
Entire Range is from \$20,887,886 to \$24,315,925 US Dollars
After 10,000 Trials, the Std. Error of the Mean is \$7,339

Statistics:

	Value
Trials	10000
Mean	\$22,373,781
Median	\$22,294,042
Mode	---
Standard Deviation	\$733,922
Variance	5E + 11
Skewness	0.32
Kurtosis	2.37
Coeff. of Variability	0.03
Range Minimum	\$20,887,886
Range Maximum	\$24,315,925
Range Width	\$3,428,039
Mean Std. Error	\$7,339.22



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: NDAA Total (cont'd)

Cell: D156

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$20,887,886
5%	\$21,271,944
10%	\$21,453,317
15%	\$21,591,452
20%	\$21,712,565
25%	\$21,817,151
30%	\$21,909,629
35%	\$22,000,075
40%	\$22,095,486
45%	\$22,195,432
50%	\$22,294,042
55%	\$22,403,588
60%	\$22,515,726
65%	\$22,638,057
70%	\$22,754,403
75%	\$22,884,984
80%	\$23,050,470
85%	\$23,226,825
90%	\$23,433,248
95%	\$23,688,800
100%	\$24,315,925

End of Forecast

Risk/Opportunity Identification and Analysis Form

Project: Safeguards & Security		PBS Number: N/A		Total Baseline Dollars (Minimum Case): \$29,494,577					
Evaluator: S. Aldrich		WBS Number: 1.2.C							
CAM: G. Gartrel		Control Account Number: PSEC							
Date: 5/16/01		Date: 5/16/01							
Project Task	Risk and/or Opportunity	Potential Impact	Internal Or External Driver	Impact Cost \$K (Maximum Case)	Risk Probability %	Risk Probability Level	Probable Cost \$K (Likeliest Case)	Risk Critical Value	Risk Handling Strategy
Charge No: PSEC1, PSEC2, PSEC3	Remediation of the site is extended by one year.		Internal	\$3,265,800	3	50	\$1,632,900	4	Accept
		Labor, materials, and ODCs for managed budget would be incurred for the extension period.							
Security & M.C. & A.									
		Total:		\$3,265,800			Total:	\$1,632,900	

Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: PSEC Total

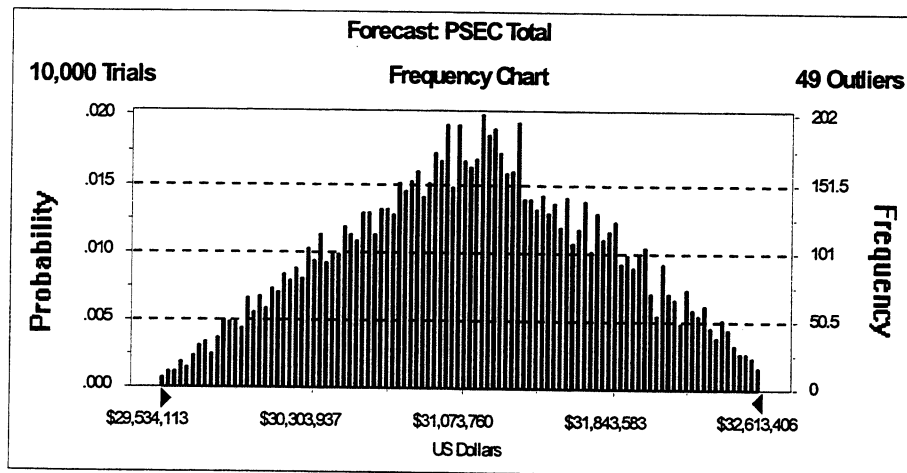
Cell: D159

Summary:

Display Range is from \$29,534,113 to \$32,613,406 US Dollars
 Entire Range is from \$29,513,281 to \$32,752,213 US Dollars
 After 10,000 Trials, the Std. Error of the Mean is \$6,738

Statistics:

	<u>Value</u>
Trials	10000
Mean	\$31,130,686
Median	\$31,133,982
Mode	---
Standard Deviation	\$673,785
Variance	5E + 11
Skewness	0.00
Kurtosis	2.38
Coeff. of Variability	0.02
Range Minimum	\$29,513,281
Range Maximum	\$32,752,213
Range Width	\$3,238,932
Mean Std. Error	\$6,737.85



Closure Plan Rev 1a Risk Analysis Probabilistic Simulation

Forecast: PSEC Total (cont'd)

Cell: D159

Percentiles:

<u>Percentile</u>	<u>US Dollars</u>
0%	\$29,513,281
5%	\$30,000,748
10%	\$30,217,867
15%	\$30,374,385
20%	\$30,519,880
25%	\$30,647,930
30%	\$30,759,870
35%	\$30,859,313
40%	\$30,956,828
45%	\$31,046,363
50%	\$31,133,982
55%	\$31,215,824
60%	\$31,302,261
65%	\$31,391,042
70%	\$31,501,278
75%	\$31,618,525
80%	\$31,747,006
85%	\$31,875,386
90%	\$32,033,743
95%	\$32,259,772
100%	\$32,752,213

End of Forecast

APPENDIX F

GOVERNMENT FURNISHED SERVICES/ITEMS

<u>Item</u>	<u>Duration / Timing</u>
Maintain Computerized Accident/Incident Reporting Services (CAIRS)	Continuous
Maintain Non-Compliance Tracking System (NTS) Database	Continuous
Maintain Occurrence Reporting and Processing Database	Continuous
Maintain FACTS System	Continuous
Supply Nuclear Material Management and Safeguards Systems Software	Continuous
Supply Federal Telephone System Access	Continuous
Envirocare Disposal Services for Low-Level Waste	Continuous through Project Duration Consistent with Terms and Conditions of Existing DOE Ohio Field Office Contract.
Nevada Test Site Disposal Services	Continuous through Project Duration with Annual Availability Based on Fluor Fernald Input to Annual Disposal Volume Projections.
Nuclear Material Disposition Services at a DOE Sanctioned Facility	Continuous through Life of Nuclear Material Disposition Sub-project. Annual Availability Based on Fluor Fernald Input to Annual Disposition Volume Projections.
TSCA Incinerator Services at Oak Ridge	Continuous through Life of Project. Annual Availability Based on Fluor Fernald Input to Burn Plan Development.
Utilities: Water, Natural Gas, Electricity, and Natural Gas Transportation	Continuous Consistent with Existing Utility Interruption Agreements and Nomination Process.

